

20031223.qrp v03_n143.qrl.20031223

Date: Tue, 23 Dec 2003 19:03:12 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 3143

QRP-L Digest 3143

Topics covered in this issue include:

- 1) [163587] Re: [OT] Off Topic help needed.
by "Mike Yetsko" <myetsko@insydesw.com>
- 2) [163588] Carrier on 7.039
by "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
- 3) [163589] Re: Introductory/Step by Step Circuit Design Tutorial
by Bruce Muscolino <w6toy@erols.com>
- 4) [163590] Dead Line for QRP Calendars
by "Ron Polityka" <wb3aal@verizon.net>
- 5) [163591] Re: [CW] di dah di dah di
by "n3drk" <n3drk@triad.rr.com>
- 6) [163592] Masters performing on 'our' forty-meter QRP freq tonight!
by <bill@n4qa.com>
- 7) [163593] Re: Carrier on 7.039
by "Trevor Jacobs" <kg6cyn@softhome.net>
- 8) [163594] RE: Carrier on 7.039
by "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
- 9) [163595] RE: Masters performing on 'our' forty-meter QRP freq tonight!
by "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
- 10) [163596] Re: Carrier on 7.039
by "Trevor Jacobs" <kg6cyn@softhome.net>
- 11) [163597] Final update: for sale to good home
by Gsdavis7070@cs.com
- 12) [163598] Stream moving... Re: Carrier on 7.039
by "Paul Valko - W8KC" <w8kc@comcast.net>
- 13) [163599] QRP Get-Together Mount Vernon, WA January 10
by "Bruce Prior" <n7rr@hotmail.com>
- 14) [163600] Re: Carrier on 7.039
by "Bill Smith" <billsmith@ispwest.com>
- 15) [163601] Re: Carrier on 7.039
by "Dale Anderson \ (KB0VCC\)" <KB0VCC@Adelphia.Net>
- 16) [163602] Re: streaming audio
by "Paul Valko - W8KC" <w8kc@comcast.net>
- 17) [163603] 01:53 Broadcsat Station on 7.040 gone
by "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
- 18) [163604] Re: QRP-L digest 3142 "Off Topic help needed."
by Mike Warner <mdwarner@paonline.com>
- 19) [163605] 7.039

- by "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
- 20) [163606] Small inverter generators
by "Mike Maiorana" <mikemo@attglobal.net>
- 21) [163607] 3.56 +/- Monday nite?
by "sslyon" <sslyon@megalink.net>
- 22) [163608] lettuce..... forgive please
by Joel M Denison <hamjoel@juno.com>
- 23) [163609] Glowbug Radio Rally Announced Has QRP Category
by "Conard Murray" <ws4s@charter.net>
- 24) [163610] Re: Small inverter generators
by "Mike Yetsko" <myetsko@insydesw.com>
- 25) [163611] Re: PIC Elmer 160 Lesson-5
by "George Heron N2APB" <n2apb@clearviewcatv.net>
- 26) [163612] FT-817 vs. IC-703
by "Tom Mc" <thom2@worldnet.att.net>
- 27) [163613] Speaking of Globugs...
by Ken <kloc@commspeed.net>
- 28) [163614] anybody heard of Solomon soldering stations?
by "Brad Hedges" <bhedges@nc.rr.com>
- 29) [163615] "K" on 7.040
by "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
- 30) [163616] [163523] Introductory/Step by Step Circuit Design Tutorial
by Marten T Beels <martentb@goshen.edu>
- 31) [163617] RE: "K" on 7.040
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 32) [163618] "K" Single letter beacons 7040 kHz
by KEN BROWN <qrpers@juno.com>
- 33) [163619] Re: Dead Line for QRP Calendars
by Joe Martin <joe1@km5cw.org>
- 34) [163620] Re: "K" on 7.040
by Peter Burbank <peterlee@qx.net>
- 35) [163621] Hey West Coast Piggies
by "Jerry Ford" <benlightnd13@mchsi.com>
- 36) [163622] Single letter HF Marker beacons
by KEN BROWN <qrpers@juno.com>
- 37) [163623] Single letter beacons
by KEN BROWN <qrpers@juno.com>
- 38) [163624] Re: Hey West Coast Piggies
by "Patrick Schwarz" <kb8rtz@comcast.net>
- 39) [163625] Fox: N7CQR 12/24/03 0200 UTC
by Dan Presley <dpresley1@comcast.net>
- 40) [163626] BC Station on 7.040
by "John Huffman" <hjohnc@core.com>
- 41) [163627] Re: Hey West Coast Piggies
by WJuergens@t-online.de (Wolf-Ruediger Juergens)
- 42) [163628] Re: "K" on 7.040
by "Tony Martin W4FOA" <w4foa@comcast.net>
- 43) [163629] Michigan QRP Net

by kwiike@gdls.com

44) [163630] Re: FT-817 vs. IC-703
by John Kalotai <n1olo@yahoo.com>

45) [163631] Re: "K" Single letter beacons 7040 kHz
by "Oleg V. Borodin" <master72@lipetsk.ru>

46) [163632] Spice help (Detectors)
by "Tom" <kf4yyd@adelphia.net>

47) [163633] Re: FT-817 vs. IC-703
by Karl Larsen <k5di@zianet.com>

48) [163634] Re: FT-817 vs. IC-703
by KJ7UN <kj7un@kj7un.com>

49) [163635] Re: [Ham-pic] Elmer 160: incsfz or incfsz That is the question?
by "John J. McDonough" <wb8rcr@arrl.net>

50) [163636] Re: "K" on 7.040
by Bruce Muscolino <w6toy@erols.com>

51) [163637] Help Wanted: Curvature of the Earth???
by Ke9xq@aol.com

52) [163638] Re: FT-817 vs. IC-703
by Bruce Muscolino <w6toy@erols.com>

53) [163639] Re: Speaking of Globugs...
by Bruce Muscolino <w6toy@erols.com>

54) [163640] Re: Help Wanted: Curvature of the Earth???
by "Sam Binkley" <sbinkley1@cox.net>

55) [163641] Re: FT-817 vs. IC-703
by John Oppenheimer <kn5l@gte.net>

56) [163642] Re: Help Wanted: Curvature of the Earth???
by "Brad Hedges" <bhedges@nc.rr.com>

57) [163643] Re: Help Wanted: Curvature of the Earth???
by Chris Cartwright <ccart@phideaux.com>

58) [163644] RE: Help Wanted: Curvature of the Earth???
by "David Porter" <aa3ur@comcast.net>

59) [163645] Re: Help Wanted: Curvature of the Earth??? [Oblate Earth]
by Chuck Carpenter <w5usj@9plus.net>

60) [163646] [OT] dimmer switch RFI
by Ken N9VV <n9vv@wideopenwest.com>

61) [163647] RE: [qrp-l] Help Wanted: Curvature of the Earth???
by "Nick Kennedy" <wa5bdu@tcainet.net>

62) [163648] Re: Introductory/Step by Step Circuit Design Tutorial
by "Nick Kennedy" <wa5bdu@tcainet.net>

63) [163649] RE: [qrp-l] Help Wanted: Curvature of the Earth???
by "John_Evans" <jae@codenet.net>

64) [163650] Re: Help Wanted: Curvature of the Earth???
by James R Giammanco <n5ib@juno.com>

65) [163651] RE: Help Wanted: Curvature of the Earth???
by "David Porter" <aa3ur@comcast.net>

66) [163652] Re: Spice help (Detectors)
by "Larry Roohr" <larry.roohr@comcast.net>

67) [163653] Re: Introductory/Step by Step Circuit Design Tutorial

by KD5NWA <KD5NWA@cbayona.com>
68) [163654] Re: Speaking of Globugs...
by "John LeRoy" <w4jkl@qsl.net>
69) [163655] Re: [ke4ma] Re: Introductory/Step by Step Circuit Design Tutorial
by "Mark Andrews \ (KE4MA\)" <KE4MA@KE4IOF.com>
70) [163656] Circuit Design Tutorial [Empirical Design]
by Chuck Carpenter <w5usj@9plus.net>
71) [163657] emails to sales@elecraft.com incorrectly bounced; Now fixed
by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
72) [163658] Tuna Tin II
by John Sielke <jsielke@pobox.com>
73) [163659] Re: [OT] dimmer switch RFI
by "Steve McDonald" <jsm@gulfislands.com>
74) [163660] Q B A ! ! !
by Lloyd Lachow <llachow@yahoo.com>
75) [163661] Re: Glowbug Radio Rally Announced Has QRP Category
by Ted Albert <ted.albert@fuse.net>
76) [163662] Re: [OT] dimmer switch RFI
by "Mike Yetsko" <myetsko@insydesw.com>
77) [163663] RE:[OT] dimmer switch RFI
by wo7t@juno.com
78) [163664] Re: [OT] dimmer switch RFI
by "Ken Alexander" <kpathai@hotmail.com>

Date: Mon, 22 Dec 2003 18:52:24 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <nkennedy@tcainternet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163587] Re: [OT] Off Topic help needed.
Message-ID: <016b01c3c8e6\$a84da540\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, you could make a closed loop pipe...

A lot of storage tanks use a 'float' that has a cable that goes up, out the top (in a pipe) and then down the side of the tank. The cable attaches to a 'tape' like in a measuring tape, and you can read the tape through a window in a box. (When I say 'tank' I mean stuff like big gas or oil storage tanks. The stuff 40 feet tall, 100 feet in diameter kind of tank!)

Anyway, you could do the same, only keep the 'pipe' pressurized. Just

make sure your float and tape aren't subject to corrosion from the material in the tank.

On the other hand... If you can mount a sealed box in there. Could you use one of those 'sonic range finders' to measure the distance from the top of the tank to the level of the fluid in the tank?

Mike

Date: Mon, 22 Dec 2003 19:26:15 -0500
From: "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>, <qrp-canada@gpfn.sk.ca>
Subject: [163588] Carrier on 7.039
Message-ID: <00cf01c3c8eb\$60e9ca30\$4604d3d8@flesnick>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

A carrier started on 7.039 at 0000z, it is s7-9 here in Thunder Bay.... I was listening to a cw qso when the carrier started... Oh well, will have to move up to 7.040 and listen there.

Fred
VE3FAL

Date: Mon, 22 Dec 2003 19:26:18 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: NoahLorang@nc.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [163589] Re: Introductory/Step by Step Circuit Design Tutorial
Message-ID: <3FE78BAA.1F1EE5E4@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Noah,

What is your educational level? You are asking about the 'holy grail'

of electrical engineering. Circuit design is about as high up in the field as you can aspire to! It is taught as junior and senior courses with labs.

The reason I ask is that without the necessary mathematical background you won't get very far. Circuit design is a mathematical thing. Understanding current flow in semiconductors is also mathematical.

A good background can be had by lots of reading in hobby publications. 'Solid State Design for the Radio Amateur' will give you a good introduction with no real math background required, but to go much further does require math.

"The Electronics of Radio" was written to be a junior, I think, course at Cal Tech. It does use the NC40A as the textbook example, but that is more because it is a simple, inexpensive unit that use about one of each different circuit types. It is not aimed at QRP though.

If I were you, and did not have four years of college level math (which I can barely remember) I would stick to what is available in the hobby press. It is not all simple stuff. Besides, you get to see a wide variety of projects.

Bruce

Date: Mon, 22 Dec 2003 20:06:44 -0500
From: "Ron Polityka" <wb3aal@verizon.net>
To: ".QRP-L" <qrp-l@Lehigh.EDU>
Subject: [163590] Dead Line for QRP Calendars
Message-ID: <006901c3c8f1\$08a94390\$0200a8c0@WB3AAL>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Thanks to all those QRP'ers that ordered the 2004 QRP Contest Calendar.

If you have not order one yet and you would like to do so, please check www.n3epa.org web site. Check out the comments from people that received their calendars.

The last day to order will be on January 15, 2004 at 23:59 UTC. No orders will be taken after that date.

I would like to wish everyone a Safe and Happy Holidays!!

72 and Thanks,
Ron Polityka
WB3AAL
www.n3epa.org/

Date: Mon, 22 Dec 2003 20:19:57 -0500
From: "n3drk" <n3drk@triad.rr.com>
To: "uranito" <uranito@infovia.com.ar>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163591] Re: [CW] di dah di dah di
Message-ID: <02f301c3c8f2\$e0c259a0\$6400a8c0@n3drk>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

While listeneing to the w1aw code xmsns, they always end the particular code practice speed message with AR. That ends the message. Then they sign with their call. I believe it should be used in that context not when signing your call. AR means nothing more to say, message ended.

john

----- Original Message -----
From: "uranito" <uranito@infovia.com.ar>
To: <CW@mailman.qth.net>
Sent: Monday, December 22, 2003 12:47 PM
Subject: [CW] di dah di dah di

> Hello Jim:
>
> I used daily to indicate the end of my transmtion.
> Answering a call - N5KY DE LU1DZ AR - etc.
>
> Best regards
> Alberto U. Silva LU1DZ
>
> _____
> CW mailing list
> CW@mailman.qth.net

> <http://mailman.qth.net/mailman/listinfo/cw>
>

Date: Mon, 22 Dec 2003 20:22:30 -0500
From: <bill@n4qa.com>
To: <qrp-1@Lehigh.EDU>
Subject: [163592] Masters performing on 'our' forty-meter QRP freq tonight!
Message-ID: <001501c3c8f3\$3d68eac0\$e525ad80@f1n5n8>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Someone is treating us to classical music tonight on exactly 7040 KHz AM
this evening.
Pretty good audio too...
Must be a tube rig :0)

73.
Bill, N4QA
<http://www.n4qa.com>

Date: Mon, 22 Dec 2003 17:24:48 -0800
From: "Trevor Jacobs" <kg6cyn@softhome.net>
To: flesnick@tbaytel.net,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [163593] Re: Carrier on 7.039
Message-ID: <000901c3c8f3\$8f01bdd0\$38fea8c0@TREVORMAINPC>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Fred,

I'm hearing a wavering carrier right on 7.040. Quite strong here in Southern
California.

Anyone else hear it? Time: 1:25 UTC

73's Trev - KG6CYN
<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: "Fred (VE3FAL)" <flesnick@tbaytel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 22, 2003 4:26 PM
Subject: Carrier on 7.039

> A carrier started on 7.039 at 0000z, it is s7-9 here in Thunder Bay....
> I was listening to a cw qso when the carrier started...
> Oh well, will have to move up to 7.040 and listen there.
>
> Fred
> VE3FAL
>
>
>

Date: Mon, 22 Dec 2003 20:26:59 -0500
From: "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
To: "'Trevor Jacobs'" <kg6cyn@softhome.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>
Subject: [163594] RE: Carrier on 7.039
Message-ID: <00e501c3c8f3\$dcc6a580\$4604d3d8@flesnick>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

The carrier that I heard on 7.037 and 7.040 was that of a broadcast station, I am listening to it now, I don't recall one being on this frequency before, at least not for many years...

Fred
VE3FAL

-----Original Message-----

From: Trevor Jacobs [mailto:kg6cyn@softhome.net]
Sent: December 22, 2003 8:25 PM
To: flesnick@tbaytel.net; Low Power Amateur Radio Discussion
Subject: Re: Carrier on 7.039

Hey Fred,

I'm hearing a wavering carrier right on 7.040. Quite strong here in

Southern
California.

Anyone else hear it? Time: 1:25 UTC

73's Trev - KG6CYN

<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: "Fred (VE3FAL)" <flesnick@tbaytel.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Monday, December 22, 2003 4:26 PM

Subject: Carrier on 7.039

> A carrier started on 7.039 at 0000z, it is s7-9 here in Thunder
Bay....

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> Oh well, will have to move up to 7.040 and listen there.

>

> Fred

> VE3FAL

>

>

>

Date: Mon, 22 Dec 2003 20:34:34 -0500

From: "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>

To: <bill@n4qa.com>,

"'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>

Subject: [163595] RE: Masters performing on 'our' forty-meter QRP freq tonight!

Message-ID: <00e901c3c8f4\$ebca8780\$4604d3d8@flesnick>

MIME-Version: 1.0

Content-Type: text/plain;
charset="us-ascii"

Content-Transfer-Encoding: 7bit

Yep, sure is loud.....

5-9 plus here...

Fred

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf

Of bill@n4qa.com
Sent: December 22, 2003 8:23 PM
To: Low Power Amateur Radio Discussion
Subject: Masters performing on 'our' forty-meter QRP freq tonight!

Someone is treating us to classical music tonight on exactly 7040 KHz AM this evening.

Pretty good audio too...

Must be a tube rig :0)

73.

Bill, N4QA

<http://www.n4qa.com>

Date: Mon, 22 Dec 2003 17:36:29 -0800
From: "Trevor Jacobs" <kg6cyn@softhome.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>, flesnick@tbaytel.net
Subject: [163596] Re: Carrier on 7.039
Message-ID: <006301c3c8f5\$309cf000\$38fea8c0@TREVORMAINPC>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Appears to be an AM station broadcasting classical music from who knows where? I can hear it on the LSB setting of the K2... no ID as of yet...

Running about S9 +10 here...

Happy Holidays!

73's Trev - KG6CYN

<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: "Fred (VE3FAL)" <flesnick@tbaytel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 22, 2003 4:26 PM
Subject: Carrier on 7.039

> A carrier started on 7.039 at 0000z, it is s7-9 here in Thunder Bay....
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> Oh well, will have to move up to 7.040 and listen there.
>
> Fred
> VE3FAL
>
>
>

Date: Mon, 22 Dec 2003 20:35:24 EST
From: Gsdavis7070@cs.com
To: qrp-1@lehigh.edu
Subject: [163597] Final update: for sale to good home
Message-ID: <4f.38929353.2d18f5dc@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

All Items Gone. Thanks for all the interest. Merry Christmas. NW0Y

Date: Mon, 22 Dec 2003 20:41:15 -0500
From: "Paul Valko - W8KC" <w8kc@comcast.net>
To: <flesnick@tbaytel.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [163598] Stream moving... Re: Carrier on 7.039
Message-ID: <001001c3c8f5\$db4041b0\$6401a8c0@hamshack1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yuck.

I'll be streaming the local USECA 2M Monday Evening Morse Code Instruction net at 9PM EST.

That's in about 20 minutes.

Until then, if you want to hear the AM BC station tune your web browser to <http://www.w8kc.com/stream.aspx>

At 9PM EST you can hear our excellent net. I'll put the stream back on 7.040 later, if the BC is gone.

73! =paul= W8KC

Collector of Ten*Tecs and other fine plastics.

Visit the Virtual Ten*Tec Museum at <http://mywebpages.comcast.net/w8kc>

----- Original Message -----

From: "Fred (VE3FAL)" <flesnick@tbaytel.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Monday, December 22, 2003 8:26 PM

Subject: RE: Carrier on 7.039

> The carrier that I heard on 7.037 and 7.040 was that of a broadcast
> station, I am listening to it now, I don't recall one being on this
> frequency before, at least not for many years...

>

> Fred

> VE3FAL

>

> -----Original Message-----

> From: Trevor Jacobs [mailto:kg6cyn@softhome.net]

> Sent: December 22, 2003 8:25 PM

> To: flesnick@tbaytel.net; Low Power Amateur Radio Discussion

> Subject: Re: Carrier on 7.039

>

> Hey Fred,

>

> I'm hearing a wavering carrier right on 7.040. Quite strong here in
> Southern

> California.

>

> Anyone else hear it? Time: 1:25 UTC

>

> 73's Trev - KG6CYN

> <http://www.qsl.net/kg6cyn>

> ----- Original Message -----

> From: "Fred (VE3FAL)" <flesnick@tbaytel.net>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Sent: Monday, December 22, 2003 4:26 PM

> Subject: Carrier on 7.039

>

>

> > A carrier started on 7.039 at 0000z, it is s7-9 here in Thunder
> Bay....

> > I was listening to a cw qso when the carrier started...

> > Oh well, will have to move up to 7.040 and listen there.

> >

> > Fred
> > VE3FAL
> >
> >
> >
>
>
>
>

Date: Tue, 23 Dec 2003 01:43:21 +0000
From: "Bruce Prior" <n7rr@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [163599] QRP Get-Together Mount Vernon, WA January 10
Message-ID: <BAY1-F53qzqmDsykEK60004b2dd@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

On Saturday, January 10, Lyle (KK7P) and Heather (N7DZU) Johnson are hosting a QRP get-together in their home in Mount Vernon, Washington on a hill overlooking the Skagit River Valley. Mount Vernon is 47 miles southeast of the British Columbia border at Blaine, and 53 miles north of Seattle. The QRP gab-fest will get underway at 1300. Plan to eat lunch ahead of time. Lyle and Heather will furnish dessert. Lyle will host the QRP bunch and Heather will entertain the non-QRP (QRO?) spouses and other adults. Children are also welcome. Unless they are interested in the ham-radio activities, there will be popcorn and videos for kids in a separate room. The Johnson QTH is a non-tobacco and non-alcohol place.

Lyle is one of the TAPR pioneers, and a major contributor to the amateur satellite program through AMSAT. He also designed the KDSP2 advanced DSP filter for the Elecraft K2 transceiver. See <<http://www.elecraft.com>> and follow the K2 and KDSP2 links for details. Lyle will demonstrate that unit.

I'll take my Elecraft KX1 and Margaret (KD7CEL) will take her Ten-Tec Argonaut V with the SGC ADSP2 unit installed inside. Please bring more show-and-tell stuff!

The Johnson home is at 18345 Osprey Court, Mount Vernon, WA 98274.
(48 22'44.9" N 122 17'12.8" W -- That's what my GPS reads in their driveway.)

Lyle has more precise geographical coordinates based on the GPS antenna on his roof!) See <<http://www.mapquest.com>> to generate a map and get directions from your place. Please RSVP to Lyle: <kk7p@amsat.org>. Mention the number of adults and the number and ages of kids in your party to help Heather and Lyle plan.

72,

J. Bruce Prior N7RR
Kairos Research
853 Alder Street
Blaine, WA 98230-8030
360-332-6046

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now! <http://join.msn.com/?page=dept/dialup>

Date: Mon, 22 Dec 2003 17:44:48 -0800
From: "Bill Smith" <billsmith@ispwest.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [163600] Re: Carrier on 7.039
Message-ID: <005701c3c8f6\$5ac6e4c0\$0200a8c0@HBCO>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It also can be heard in the San Francisco Bay area. About S5-S6 here at
01:45 Z.

73 de Bill, AB6MT
billsmith@ispwest.com

----- Original Message -----
From: Trevor Jacobs
To: Low Power Amateur Radio Discussion
Sent: Monday, December 22, 2003 5:36 PM
Subject: Re: Carrier on 7.039

Appears to be an AM station broadcasting clasical music form who knows
where? I can hear it on the LSB setting of the K2... no ID as of yet...

Running about S9 +10 here...

Happy Holidays!

73's Trev - KG6CYN

<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: "Fred (VE3FAL)" <flesnick@tbaytel.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Monday, December 22, 2003 4:26 PM

Subject: Carrier on 7.039

> A carrier started on 7.039 at 0000z, it is s7-9 here in Thunder Bay....

> I was listening to a cw qso when the carrier started...

> Oh well, will have to move up to 7.040 and listen there.

>

> Fred

> VE3FAL

>

>

>

Date: Mon, 22 Dec 2003 20:49:09 -0500

From: "Dale Anderson \ (KB0VCC\)" <KB0VCC@Adelphia.Net>

To: <qrp-1@Lehigh.EDU>

Subject: [163601] Re: Carrier on 7.039

Message-ID: <000501c3c8f6\$f5531a40\$6401a8c0@HPNotebook>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

>A carrier started on 7.039 at 0000z, it is s7-9 here in Thunder Bay....

>I was listening to a cw qso when the carrier started...

>Oh well, will have to move up to 7.040 and listen there.

I believe the carrier you heard is the same AM SW BC station that
is on 7.040 this evening, peaking some +20db over 9 here in NH.

Playing continuous instrumental music. I've not heard them ID yet.

Egads! This is giving me flashbacks to my 40m Novice days.

Dale

Date: Mon, 22 Dec 2003 20:54:55 -0500

From: "Paul Valko - W8KC" <w8kc@comcast.net>

To: "Gary Scott" <ke4mmu@swva.net>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [163602] Re: streaming audio
Message-ID: <003c01c3c8f7\$c3ff1f60\$6401a8c0@hamshack1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for the note Gary. Wonder if you are using IPAS as your wireless connectrion?

73 =p= w8kc

----- Original Message -----

From: "Gary Scott" <ke4mmu@swva.net>
To: <w8kc@comcast.net>
Sent: Monday, December 22, 2003 8:51 PM
Subject: streaming audio

> Well, was sitting here in a parking lot reading the comments on the music
> on 7040,,on QRP-L using my laptop with a wireless connection ,and went to
> your streaming audio to hear it for myself since i dont have a rig with me
> here in Joplin Mo ;) Thx fer the internet rig 73 de Gary W4GNS
>
>

Date: Mon, 22 Dec 2003 20:56:36 -0500
From: "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [163603] 01:53 Broadcsat Station on 7.040 gone
Message-ID: <00f201c3c8f8\$000b21c0\$4604d3d8@flesnick>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Guess their batteries died, they fell off the face of the earth at 01:53
zulu.....
Maybe a pirate playing around.

Fred
VE3FAL

Date: Mon, 22 Dec 2003 21:08:01 -0500
From: Mike Warner <mdwarner@paonline.com>
To: qrp-1@Lehigh.EDU
Subject: [163604] Re: QRP-L digest 3142 "Off Topic help needed."
Message-ID: <3FE7A381.4000507@paonline.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Ron,

At work we use differential pressure for level sensing and these transmitters are a workhorse standard.

<http://www.rosemount.com/products/pressure/m1151.html>

This can also be done with a bubbler and manometer if you don't need the electronics.

We also use some ultrasonics from
<http://www.flowline.com/>

Im sure there's lots more options but these are what I'm familiar with.
Hope this helps.

73 de N3XPD
Mike

Date: Sun, 21 Dec 2003 19:13:41 -0700
From: "Ron KU7Y" <ku7y@tds.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [163527] Off Topic help needed.
Message-ID: <004501c3c831\$76b916a0\$13910b45@ku7y>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

Thanks for the BW.

Does anyone here have any experience measuring tank levels remotely? This is a corrosive fluid under about 40ish psi.

Thanks in advance and for those who don't like to see these kinds of posts please accept my apology but there is just so much knowledge here on this list and I don't know how to tap into it any other way!

OK, back in my hole.....

73,

Ron, KU7Y
ku7y@qsl.net
Brenda, AZ (or somewhere close!)
<http://www.qsl.net/ku7y>
<http://www.BrendaJamFest.com>

Date: Mon, 22 Dec 2003 21:10:09 -0500
From: "Fred \ (VE3FAL\)" <flesnick@tbaytel.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [163605] 7.039
Message-ID: <00f501c3c8f9\$e4af6e20\$4604d3d8@flesnick>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Now the broadcast is gone and hearing AM voice comms in what appears to be Spanish?????
Strange goings on around here....

Fred
VE3FAL

Date: Mon, 22 Dec 2003 21:12:06 -0500

From: "Mike Maiorana" <mikemo@attglobal.net>
To: <qrp-l@lehigh.edu>
Subject: [163606] Small inverter generators
Message-ID: <068501c3c8fa\$2c004420\$020a0a0a@MIKEM03>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This is slightly off-topic, so I hope you won't mind granting me the latitude.

I'm looking to buy a small portable generator. I was originally taken with the Honda EU1000i, 1kw generator. I had a chance to see one in action and I have to say it was amazing. I was ready to make the purchase when I saw that Yamaha has a competing unit, the EF1000iS. They are the same price (at least from the place I'm looking at, \$649 delivered). It's hard to tell which would be the best buy, so I was hoping that someone on the list has personal experience on the matter. I'd appreciate any input.

These things are the QRP of generators. Small, quiet, light and fuel efficient.

Thanks for the help!

Mike M. KU4QO

Date: Mon, 22 Dec 2003 21:28:37 -0500
From: "sslyon" <sslyon@megalink.net>
To: "qrp list" <qrp-l@lehigh.edu>
Subject: [163607] 3.56 +/- Monday nite?
Message-ID: <003201c3c8fc\$78efc880\$13c8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

just thought I'd look for an excuse to break from decorations and baking. 80m seems awfully quiet tonite and I did hear qro EC5 so prop isn't too bad. I'll look in every half hr or so for excuses.

73

seab

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm

Date: Mon, 22 Dec 2003 21:34:18 -0500
From: Joel M Denison <hamjoel@juno.com>
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU
Subject: [163608] lettuce..... forgive please
Message-ID: <20031222.213419.436.3.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

yes Martha its christmas

 a good time to forgive and forget the past years grievances and
hope others forgive ours....

its time to draw new smoke, from new rigs, or to freeze one's B off in a
new qth and let folk

kneaux u love em, even if they be qro inclined...

 and it might be a good time to set a few projects aside and romp
and stomp with the xyl and kids for a few days...

might let u tackle that new qrp project with new vigor come jan 1....

 be nice ...kella ,,,, ho ho ho.....

KE1LA

Joel Denison

Strong, Maine, 04983

Freezin solid up heah

The best thing to hit the internet in years - Juno SpeedBand!
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Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Mon, 22 Dec 2003 20:40:35 -0600
From: "Conard Murray" <ws4s@charter.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [163609] Glowbug Radio Rally Announced Has QRP Category
Message-ID: <002c01c3c8fe\$2537ad00\$6501a8c0@radio1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey everyone,

I suppose many of you OT guys can remember when the Glowbugs list was

created as a sort of cross between QRP-L and the Boatanchors list. We are a bunch of radio experimenters that like to tinker with tubes and explore old radio lore.

I hope that many of the QRP gang will take some time to enter our Radio Rally and possibly win a certificate. The rules are set up to give homebrew rigs an advantage and QRP stations are scored separately. This should be a good sprint to give 80 and 160 M a try. Activity will center around 1802, 3550, 3579 and 7050 KHz.

John Hern was a regular contributor to the GB list that passed away last month. The list decided that naming this contest in his honor would be a fitting tribute.

73 and happy holidays!

Conard, WS4S

=====
==

The 2003 John Hern Memorial Glowbug Radio Rally

~ Rules ~

Contest Period

0000 to 0800Z Dec 30, 2003. That is Monday evening US time.

Operator Classes

Single band and all band QRP, QRO and QRO+

Single operator/Multi operator OK, one signal per band

QRP is 5 watts out or less

QRO is 125 watts out or less

QRO+ is anything over 125 watts out.

Exchange

Honest RST, Name, QTH and rig info.

Points

1 per contact per band. Work stations again on different bands. CW and phone are separate bands. RTTY counts as CW. Real QSO points 1 point for every 5 minutes in HF QSO with another GBRR participant. If things get slow, you can still accumulate points! If you decide to QSO a station you have previously worked, you may do so without counting the first contact as a dupe. Round tables are OK too, but each station must take its turn and can only take credit for time spent in the table.

Multipliers

1 for each state you work, x2 for homebuilt gear and x2 for vacuum tube gear, x1 for store-bought or non-VT.

Homebuilt is anything you personally built. Count points for transmitter and receiver.

Examples:

Homebrew VT transmitter + solid state store-bought receiver = 5

Store-bought SS transceiver = 2

Heath HW101 somebody else built = 4

Drake 4-line or TR-4 = 4

Yaesu FT-857 = 2

Elecraft K2 you built = 4

Elecraft K2 you built driving a pair of 4-1000A = 4, but a little louder.

Homebrew VT transmitter and receiver = 8

Multipliers for different lash-ups don't combine if you use different rigs then the multiplier only counts for the contacts you make with that setup. Possible multiplier for number of OO cards and TVI/BCI complaints you get.

Signals should be of at least 1929 quality before midnight (0600Z). In no instance should any electromagnetic, acoustical or olfactory radiation from your station cause interference to another station in any service.

Scoring will be a little harder since the multiplier can be different at different times. Do the math.

Certificates for top overall score and top scores per band for QRO and QRP.

Other certificates possible for other outstanding accomplishments and acts of bravery.

Send logs by January 15, 2004 to WS4S either by USPS or email (triode@charter.net). In case of a tie, logs scribbled in pencil beat logs done on computer. The more coffee stains, the better.

The idea here is to have a semi-serious contest with room for fun. I sincerely hope everyone will at least get on to hand out some points during the Rally.

Results will be announced on the list and the Glowbugs web page at <http://www.mines.uidaho.edu/~glowbugs/>

Address queries to Conard, WS4S at triode@charter.net . This address will only be valid for the contest.

Good Luck and hope to hear everyone on!

Date: Mon, 22 Dec 2003 21:39:42 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <mikemo@attglobal.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163610] Re: Small inverter generators
Message-ID: <008801c3c8fe\$0963f520\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> This is slightly off-topic, so I hope you won't mind granting me the
> latitude.
> I'm looking to buy a small portable generator. I was originally taken
with
> the Honda EU1000i, 1kw generator. I had a chance to see one in action
and I
> have to say it was amazing. I was ready to make the purchase when I saw
that
> Yamaha has a competing unit, the EF1000iS. They are the same price (at
least
> from the place I'm looking at, \$649 delivered). It's hard to tell which
> would be the best buy, so I was hoping that someone on the list has
personal
> experience on the matter. I'd appreciate any input.
> These things are the QRP of generators. Small, quiet, light and fuel
> efficient.
> Thanks for the help!
> Mike M. KU4QO

Well, I don't know about any differences from the 'electrical' point of
view,
but from the 'mechanical' point of view I would suspect that the initial
impression of the Honda would be that it was bit smaller and slightly
less powerful than competing brands, but that it would be much less
'mechanically stressed' in operation and last a lot longer than the same
competition.

As to the Yamaha, I don't have a feel as to whether they would be
considered 'generic competition' or a leader the way Honda is.

Overall, I'd say that if you can justify the purchase to begin with, you
have a VERY hard time NOT justifying the Honda.

Hondas are... well, they're Hondas!

Mike

Date: Mon, 22 Dec 2003 21:47:55 -0500
From: "George Heron N2APB" <n2apb@clearviewcatv.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, <njqrp@njqrp.org>
Cc: "Dick" <dboley@adelphia.net>
Subject: [163611] Re: PIC Elmer 160 Lesson-5
Message-ID: <00df01c3c8ff\$2b7e77b0\$6400a8c0@n2apb1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

To save lots of typing, the file "Lesson5a.asm" file can now be downloaded
via a link on the Elmer 160 "Lessons" page ...
<http://www.amqrp.org/elmer160/lessons>

73, George N2APB

----- Original Message -----
From: "Dick" <dboley@adelphia.net>
To: <njqrp@njqrp.org>
Sent: Monday, December 22, 2003 8:20 PM
Subject: [NJQRP] PIC Elmer 160 Lesson-5

> The ability to select text within the PDF document seems to be turned off
> for lesson-5. Works in other lessons. Saves typing which is one of the
> reasons I dislike programming - most of my mistakes are typing errors!

>
> Dick N3HKN

>
>
>
> -----
> NJQRP mailing list
> njqrp@njqrp.org
> <http://www.applegate.org/mailman/listinfo/njqrp>
>
>

Date: Mon, 22 Dec 2003 21:56:54 -0500
From: "Tom Mc" <thom2@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [163612] FT-817 vs. IC-703
Message-ID: <002701c3c900\$7153b4c0\$a22a4c0c@x2f6a2>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

I'm trying get a better understanding of The Yaesu FT-817 and the Icom IC-703 (not the Pro version with 6 meters). With the price of the FT-817 coming down I getting tempted but thought it best to do a little homework.

I guess my first question should be, is there any other rig(s) in this category that I should also consider? (I already have an Elecraft K-2 and am happy with it.)

Also, its seems that the 817 covers VHF and UHF and the 703 doesn't, I think.

I'm having a bit of trouble in reading the 817 specs to see if it includes an automatic antenna tuner (I'm assuming it doesn't) but it seems that the ICOM rig does have an ATU (as well as DSP).

If there is anything else which sets these two rigs apart from each other, I'd appreciate your comments.

Thanks in advance for your help and happy holidays to all
Tom McCulloch
WB2QDG

Date: Mon, 22 Dec 2003 19:56:44 -0700
From: Ken <kloc@commspeed.net>
To: qrp-1@lehigh.edu
Subject: [163613] Speaking of Globugs...
Message-ID: <5.2.1.1.2.20031222195358.00ae5628@mail.commspeed.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hey Gang,

Does anyone remember, in the late 50's or early 60's, a small transmitter,

40 meters I think,
built in a 3x5 metal filecard box, using a 117N7 tube? It was in one of the
major electronic
magazines of the day.

Ken - WA4MNT

Date: Mon, 22 Dec 2003 22:11:20 -0500
From: "Brad Hedges" <bhedges@nc.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [163614] anybody heard of Solomon soldering stations?
Message-ID: <007301c3c902\$704e40c0\$e0c73942@nc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Found this while searching for something else:

Solomon SL-30 Solder Station with LED Display for Temperature. Ideal for
production or hobby use; these temperature controlled soldering stations
have the heat sensor located in tip for fast response and +-10 deg. control.
Temperature range: 300 deg. "F" to 790 deg. "F". Isolated tip, fused line.
117 VAC.

Extra tips are available for general replacement or special uses. \$69.95

Anybody have any experience good or bad with these?

Thanks & 73,

K0BHC

Brad

Date: Mon, 22 Dec 2003 19:20:55 -0800
From: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [163615] "K" on 7.040
Message-ID: <08D18BEFE0F59E4EB2BB78107B5A52710173794C@blaze.bccsc.gov.bc.ca>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

For the last couple of days, I've been hearing a "K" being sent over and

over on CW at 7.040. Goes on for hours. I'm in northern British Columbia.
Has anyone else heard this? Any ideas what it is?

Doug VA7DD

Date: Mon, 22 Dec 2003 22:43:29 -0500
From: Marten T Beels <martentb@goshen.edu>
To: qrp-l@Lehigh.EDU, NoahLorang@nc.rr.com
Subject: [163616] [163523] Introductory/Step by Step Circuit Design Tutorial
Message-ID: <1072151009.3fe7b9e1083c1@mail.goshen.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

I bought The Electronics of Radio by David Rutledge when I bought my Norcal 40A. The book is definitely written for a college level course on radio design. It takes the reader on a step by step construction of the Norcal 40A with laboratory assignments and explanations on how each stage works. To really get the most out of it, you need to have an oscilloscope to do all the exercises. But it also makes for a good text with lots of very specific radio design detail. I was planning on consulting it while I built my Norcal 40A, but ended up just soldering the whole thing together. (too impatient, I guess!)

There is also some useful math and theory, but it seems to be more hands on oriented.

Overall, I recommend the book as a good text for introductory radio design.

Marten
KC8HZM

This mail sent through IMP: <http://horde.org/imp/>

Date: Mon, 22 Dec 2003 21:49:45 -0600
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>,
"qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [163617] RE: K" on 7.040
Message-ID: <4120031222334945618@earthlink.net>

MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Doug:

Unless I am wrong, this station is somewhere in Russia, and is a beacon station. They have others which send other/different letters. Believe it is actually closer to 7.039 than 7.040. Hope this is useful.

73,
--Doc/K0EVZ

> [Original Message]
> From: Davies, Doug A FOR:EX <Doug.Davies@gems3.gov.bc.ca>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: 12/22/2003 9:20:55 PM
> Subject: K" on 7.040
>
> For the last couple of days, I've been hearing a "K" being sent over and
> over on CW at 7.040. Goes on for hours. I'm in northern British Columbia.
> Has anyone else heard this? Any ideas what it is?
>
> Doug VA7DD
>

Date: Mon, 22 Dec 2003 20:35:05 PST
From: KEN BROWN <qrpers@juno.com>
To: qrp-l@Lehigh.edu
Subject: [163618] "K" Single letter beacons 7040 kHz
Message-ID: <20031223.233153.7959.0.QRPers@juno.com>

7040 kHz
K-Khabarovsk- Asiatic Russia
Origin: Russian Military?
Also have seen single letter beacons lists in Monitoring
Times magazine. I think one of the writers for MT keeps
track of them on various frequencies.
***There may be an updated list, by K5F0, Chuck or by

N3VXI, Jim.

See the list below:

From: Lehigh University List Server <listproc@Lehigh.EDU>
Date: Sun, 21 Jun 1998 09:09:29 EDT
Subject: SUBSCRIBE 40M-BEACON-L Charles Brown N4S0

Hello Charles Brown N4S0,

Welcome to the Internet 40M Beacon mailing list!

CONTENTS:

1. Introduction
2. The Essentials
3. Common List Server Commands
4. 40M-BEACON-L Unique List Server Commands
5. FTP Archive
6. WWW HyperMail Archive
7. 40M-BEACON-L History

1. INTRODUCTION

The 40M BEACON mailing list is open only for the discussion of beacons that are heard within a few KHz of 7.040MHz and one reported at 7.002MHz. These beacons repeat a single letter, say F, at a slow speed, with no other identification. Very little is known about their power output or antenna systems they are using. The current list of beacons follows:

this list is believed to be correct, but no one individual can show documented evidence of same, so list subject to mods as details become available---- send info and sources to adams@sgi.com

C - Moscow, European Russia	37.58E	55.75N	(in degrees)
D - Odessa, Ukraine	30.70E	46.48N	
F - Vladivostok, Asiatic Russia	131.85E	43.14N	
K - Khabarovsk, Asiatic Russia	135.10E	48.50N	
L - St Petersburg, Eur. Russia	30.33E	59.92N	
M - Magadan, Asiatic Russia	150.83E	59.63N	
O - Moscow, European Russia	37.58E	55.75N	
P - Kaliningrad, Eur. Russia	20.50E	54.72N	
R - Ustinov,			
S - Archangel, Eur. Russia	41.00E	64.66N	
U - Murmansk, Eur. Russia	33.08E	68.97N	
V - Tashkent,			
X - Prague, Czech Republic	14.43E	50.08N	
yu - Kholm'sk, Asiatic Russia	142.08E	47.66N	

**** yu is dididahdah **** Another beacon has been reported at 7.002MHz

V - Tashkent and as soon as I get additional information I will update this list.

KEN BROWN N4SO
MOBILE, AL EM50tk
QRPers@juno.com

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Date: Mon, 22 Dec 2003 23:00:09 -0600
From: Joe Martin <joe1@km5cw.org>
To: QRP-l <qrp-l@Lehigh.EDU>
Subject: [163619] Re: Dead Line for QRP Calendars
Message-ID: <3FE7CBD9.2060903@km5cw.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

they are great calendar's, I will be packing my 2003 version away in a few days with all the notes etc on it for later memories, the new 2004 is on the wall in my shack ready to ring in the new year. If you don't have one yet,,,,,what are you waiting for? hi hi

72 de KM5CW joe

dit dit

Ron Polityka wrote:

>Hello,

>

> Thanks to all those QRP'ers that ordered the 2004 QRP Contest Calendar.

>

> If you have not order one yet and you would like to do so, please check
>www.n3epa.org web site. Check out the comments from people that received
>their calendars.

>

> The last day to order will be on January 15, 2004 at 23:59 UTC. No orders
>will be taken after that date.

>

>I would like to wish everyone a Safe and Happy Holidays!!

>

>72 and Thanks,

>Ron Polityka

>WB3AAL

>www.n3epa.org/

>

>

Date: Tue, 23 Dec 2003 00:19:38 -0500
From: Peter Burbank <peterlee@qx.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [163620] Re: "K" on 7.040
Message-ID: <5.2.0.9.0.20031223001450.00a276b0@mail.qx.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:20 PM 12/22/2003, Davies, Doug A FOR:EX wrote:
>For the last couple of days, I've been hearing a "K" being sent over and
>over on CW at 7.040. Goes on for hours. I'm in northern British Columbia.
>Has anyone else heard this? Any ideas what it is?
>
>Doug VA7DD

The K beacon was on the 7040 streaming audio this morning. I often hear the
R beacon.
Recently I read somewhere that they were Russian navigation beacons.
73 Pete NV4V

Date: Mon, 22 Dec 2003 21:02:09 -0600
From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-1" <qrp-1@lehigh.edu>, "FPigs" <fpqrp-1@mpna.com>
Subject: [163621] Hey West Coast Piggies
Message-ID: <001001c3c901\$282e9e80\$4a78da0c@mchsi.com>

Anybody awake over there??

I can't sleep and the band is opened to 6 and 7 land from here.
Anybody want to come out and play??

I'm hanging around 7041 tonight cuz the SSB is to loud up higher.

Hope to hear ya there

73 es oo Jerry NOJRN
FP # 546, 4SQRP, ARS # 923, ARCI # 11049, ARRL,
Springfield, Mo. MP + #8

<http://home.mchsi.com/~n0jrn>

Date: Mon, 22 Dec 2003 23:04:33 PST
From: KEN BROWN <qrpers@juno.com>
To: qrp-l@Lehigh.edu, lujce@Lehigh.edu
Subject: [163622] Single letter HF Marker beacons
Message-ID: <20031224.020035.2735.3.QRPers@juno.com>

7039-7040 kHz Single letter beacons, or referred by some as Single letter HF Marker beacons. I have a file from Hugh Stegman of Monitoring Times from 2003 to cross reference the older list.

Here is a reflector for 40 meter single letter beacons. I don't know if the 40Mtr mail reflector is currently operating.

Saved text files from 1997.

From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Date: Wed, 19 Nov 1997 19:53:52 GMT
Subject: 40Meter Beacon Reflector

Gang,

Thanks to Jim Eshleman, N3VXI <lujce@Lehigh.EDU>, we have a mail reflector set up to handle the reports for the 40 meter beacons that a lot of us hear around 7.039 to 7.041MHz and one on 7.002MHz. These are the single letter beacons that continually broadcast a single letter in Morse at slow speeds without any other identifying traits.

The purpose of this reflector is to accumulate the reports in a separate forum. Those individuals interested in propagation on 40 meters can use them and to further accumulate data and information on these beacons from the reflector and hopefully other sources to determine their power levels, etc. The reports will be archived.

To subscribe send email to LISTSERV@LEHIGH.EDU and in the body of the message place

SUBSCRIBE 40M-BEACON-L your_name your_call

you will get back a message showing that you have successfully subscribed and a welcome text that you should read and save.

To unsubscribe send email to LISTSERV@LEHIGH.EDU and in the body place the line

UNSUBSCRIBE 40M-BEACON-L

The welcome text will show how to post to the group as well as the current known information on the beacons.

1. Observations restricted to 7.040 and 7.002MHz beacons.
No other beacons on other bands at this time.

Here is a form that I think will give the necessary information needed for most data studies, but it is subject to change and flexibility.

2. Reports in formal format such as the following suggested

DATE (UTC):
TIME (UTC):
BEACON HEARD:
FREQUENCY (MHz):
SIGNAL REPORT:
REPORTING INDIVIDUAL:
LONG/LAT (Decimal Degrees):
RECEIVER:
ANT SYSTEM:
ANT ORIENTATION:
COMMENTS:

Sample report:

DATE (UTC): November 12, 1997
TIME (UTC): 0758UTC
BEACON HEARD: F
FREQUENCY (MHz): 7.040MHz
SIGNAL REPORT: 539
REPORTING INDIVIDUAL: Chuck Adams, K5FO
LONG/LAT (Decimal Degrees): 32.783N 96.800W Dallas, TX
RECEIVER: OHR Explorer II
ANT SYSTEM: OCF Dipole 40m long at 5m height
ANT ORIENTATION: N-S direction
COMMENTS: Steady strength with no QSB. Very few stns
heard on rest of band from 7.000 to 7.100MHz.

Looking forward to hearing of reports and observations.

S S S S S S S S S S S S S S S

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/index.html>

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Date: Mon, 22 Dec 2003 23:21:47 PST
From: KEN BROWN <qrpers@juno.com>
To: qrp-l@Lehigh.edu
Subject: [163623] Single letter beacons
Message-ID: <20031224.021736.2735.5.QRPers@juno.com>

40mlist4.txt
Another source that mentions these is the HF Beacons
reflector-- I have the info in a separate file.
Compare this file from Hugh, NV6H.

Hr is Single Letter beacon info from Hugh Stegman NV6H.
Hugh writes for the magazine "Monitoring Times".
From: "Utility World \ (Hugh Stegman\)" <utilityworld@ominous-valve.com>
Date: Mon, 17 Feb 2003 11:52:03 -0800
Subject: Re: Single Letter beacons

The Single Letter Beacons (aka Single-Letter HF Markers, SLHFM) are
Russian
military. Two different cases:

1. Solitary Beacon (Enigma MX), a channel marker. Once in a great while, voice or data traffic appears on the frequencies.
2. Cluster Beacon (Enigma MXC), probably for navigation or propagation sounding, since the different letters come from different places.

ENIGMA (a European group which maintains the designator list) has dropped

MX

and MXC from its official control list, but they still appear in logs. I use them. They're convenient for searches.

These seem to come and go as needed for operations, a departure from the old USSR days when they would beep away for years in the same places.

Clusters always appear on multiple frequencies. Actually, tuning across the cluster with a narrow filter often shows them spaced .1 or .2 khz apart rather than all on the same exact frequency. This spacing seems to come and go.

C = Moscow

D = Odessa (rare/good catch)

P = Kaliningrad

Others:

F = Vladivostok

K = Kamchatskiy

L = St. Petersburg

M = Magadan (rare)

R = Izhevsk (rare and tone-keyed USB)

S = Arkhangelsk

V = Uzbekistan

There also used to be a slow "K" (maybe 5 WPM), but this seems to have vanished.

> 5154 C+D+P

C, F, P, S frequently heard here, especially in winter.

> 7039 C+D+P

C, D, F, P, S heard here.

> 10872 C+D+P

C, M, P heard here.

> 13528 C+D+S

C, D, F, M, P, S all heard here. A very common frequency for these.
Given

the way HF propagation works to the US, I'd guess that actually all the frequencies have these 6, and what you hear depends on conditions.

> 16332 C+D+P+S

Yup! C, D, P, S heard together on this frequency.

> 20048 C+D

C, D, L, P, S heard here.

Other loggings from my list:

3195.00 R
3199.00
3321.00
3322.00 R
3336.20 L
3337.00
4054.50 K
4325.00 R
4558.00 R
5154.20 F, R
5465.00 R
5860.00
6390.00 R
6944.00 T (one morse dash - perhaps not a SLHFB)
6944.10 T
6944.50 T
7452.00 R
7550.00 R
13527.90 S
14967.00 K
16331.90 S
18348.00 K
20047.90 S
25250.00 R

Good hunting!

-hugh

Hugh Stegman NV6H 34N 118W
MT Utility World
<http://www.ominous-valve.com/uteworld.html>

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Date: Tue, 23 Dec 2003 02:28:26 -0500
From: "Patrick Schwarz" <kb8rtz@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [163624] Re: Hey West Coast Piggies
Message-ID: <001901c3c926\$5c06de00\$48708318@ce1.client2.attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

> Anybody want to come out and play??
> 73 es oo Jerry N0JRN

this is reminiscent of the movie from the 70s
"warriors, come out and play" :-)

patrick...kb8rtz...

Date: Mon, 22 Dec 2003 23:44:49 -0800
From: Dan Presley <dpresley1@comcast.net>
To: qrp-l@lehigh.edu
Subject: [163625] Fox: N7CQR 12/24/03 0200 UTC
Message-ID: <p05010402bc0da1f34c02@[192.168.123.131]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Hi folks-looks like I'm one of the Christmas Eve foxes (UTC date:) on
12/24/03 0200-0400 UTC (Tuesday 12/23 local date). I haven't had a
chance to talk to the other fox, but I'd like to go on the high side
around 7042 +/- as below '040 can be messy on the west coast. I'll be
running my K2 into my delta loop, and hope conditions are good-maybe
we'll get some extra ionization from sled traffic :) See you tomorrow!

--

Dan Presley-N7CQR-Portland, Or QRP-L #502
n7cqr@arrl.net

Date: Tue, 23 Dec 2003 03:12:25 -0500
From: "John Huffman" <hjohnc@core.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163626] BC Station on 7.040
Message-ID: <002501c3c92c\$801bdec0\$02ad59cf@jhuffmanlt>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Saw this on the DX mail list -

----- Original Message -----
From: "Ron & Madhavi" <mchilkuri@kasnet.com>
To: <dx@mailman.qth.net>
Cc: "G. Victor A. Goonetilleke" <victorg@slt.lk>
Sent: Monday, December 22, 2003 11:42 PM
Subject: [DX] BC Station on 7.040

> Today (22/12) there were reports on "DX Summit" of a strong BC station
which various sources thought could be in Western Europe. I myself heard it
in Jamaica, between 0100-0200 at 59+20.

>

> A mail to Victor Goonetilleke, one of the best known Short Wave listeners
and professional BC analysts atound, resulted in the following comments.

>

> Quote:

> > The BC Station on 7040: This BC station was first noted on the 2nd or
3rd

> > of December playing western classical music on the international

> > broadcasting bands. Direction finding from Europe thought it could be
in

> > Europe going by the strong signals and top quality modulation. However,

> > Direction finding here in Colombo Sri Lanka put the direction between

> > 355-005 degrees and our own knowledge of strength and propagation made
the

> > obvious deduction that it was from China. The station is located in
South

> > West China according to Wolfgang Bushel doing research on our findings

> Unquote:

>

> I noticed a station in Columbia estimated the heading to be 052 and

another in Wisconsin put it at 042.

>

> I hope this guy moves off as it is very strong and sits in the middle of our ham band!

>

> 73,

> Ron, 6Y5/4S7R0

Date: Tue, 23 Dec 2003 07:25:11 +0100

From: WJuergens@t-online.de (Wolf-Ruediger Juergens)

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [163627] Re: Hey West Coast Piggies

Message-ID: <009701c3c91d\$85387490\$0100a8c0@homepc>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Jerry Ford wrote:

> Anybody awake over there??

>

> I can't sleep and the band is opened to 6 and 7 land from here.

> Anybody want to come out and play??

>

> I'm hanging around 7041 tonight cuz the SSB is to loud up higher.

Hi Jerry,

I hear you calling "cq fp" but you are to weak for a QSO here in the middle of germany.

73 Wolf, DL2WRJ

--

<http://www.dl2wrj.de>

Date: Tue, 23 Dec 2003 04:41:08 -0600

From: "Tony Martin W4FOA" <w4foa@comcast.net>

To: <Doug.Davies@gems3.gov.bc.ca>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [163628] Re: "K" on 7.040

Message-ID: <000c01c3c941\$46c15b40\$6401a8c0@Delldude>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Doug,
Check out the attached URL...I think it will answer pretty much any
questions you might have. Let me know what you think of it, OK? Thanks and
73
Tony, W4FOA

<http://www.cvni.net/radio/nsnl/nsnl32mx.html>

----- Original Message -----

From: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 22, 2003 9:20 PM
Subject: "K" on 7.040

> For the last couple of days, I've been hearing a "K" being sent over and
> over on CW at 7.040. Goes on for hours. I'm in northern British Columbia.
> Has anyone else heard this? Any ideas what it is?
>
> Doug VA7DD
>
>

Date: Tue, 23 Dec 2003 07:43:14 -0500
From: kwike@gdls.com
To: qrp-1@Lehigh.EDU
Subject: [163629] Michigan QRP Net
Message-ID: <0FBF8C609B.E5366647-ON85256E05.0045C572@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

We had six check-ins last week. Conditions were poor but seem to be
picking up the last couple of days.

S R

K8CV	599	ROYAL OAK	MI WALT
K1CL	339 569	CHELMSFORD	MA CHUCK
W2SH	339	MILLINGTON	NJ CHARLES
K8DD	449 549	LAPEER	MI HANK
WB8ICN	339	JACKSON	MI MIKE
K8NWD	599 599	WATERFORD	MI TIM

The Michigan QRP Net meets each Tuesday night at 9:00 PM Eastern Time on

3.535 MHz. +/- QRM. All hams are welcome.

Ed
AB8DF Waterford, MI

Date: Tue, 23 Dec 2003 04:43:29 -0800 (PST)
From: John Kalotai <n1olo@yahoo.com>
To: thom2@worldnet.att.net,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [163630] Re: FT-817 vs. IC-703
Message-ID: <20031223124329.64358.qmail@web80007.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Tom Mc <thom2@worldnet.att.net> wrote:
> Hi Gang,
>
>
> Also, its seems that the 817 covers VHF and UHF and the 703
> doesn't, I
> think.

That's correct. That alone make the 817 a hands down winner for me.

>
> I'm having a bit of trouble in reading the 817 specs to see if it
> includes
> an automatic antenna tuner (I'm assuming it doesn't) but it seems
> that the
> ICOM rig does have an ATU (as well as DSP).

There is no built-in ATU but if you saw the rigs side by side (which
you obviously haven't) you would see that was simply no room for an
ATU.

The 703 is physically a much larger radio, approximately 3x the size
of the 817. It has the same foot print and basic control layout as
the 706. The 703 is capable of higher power output than the 817
depending on the power source.

Output Power :USB/LSB/CW/FM/RTTY 0.1 to 10 W (at 13.8V)
AM 0.1 to 4 W (at 13.8 V)

USB/LSB/CW/FM/RTTY 0.1 to 5 W (at 9.6V)
AM 0.1 to 2 W (at 9.6 V)

And on the subject of batteries, the 703 has no internal battery pack. The 817 has an internal AA battery tray and there are various after market rechargeable batteries available to replace that tray.

IMHO - Icom marketing was a day late and a dollar short bringing the 703 to market.

73 and Merry Christmas

John N10LO

Date: Tue, 23 Dec 2003 15:42:24 +0300
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: KEN BROWN <qrpers@juno.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163631] Re: "K" Single letter beacons 7040 kHz
Message-ID: <1034692358.20031223154224@lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

.....
KB> R - Ustinov,

Not Ustinov (Brezhnev's times city-name), but Izhevsk - EU, Russia

Wish you all the best!
72! de RV3GM Oleg ("Master-72") V. Borodin
RU-QRP Club <http://ruqrp.narod.ru>

=== In QRP We Trust! ===

Date: Tue, 23 Dec 2003 07:50:44 -0500
From: "Tom" <kf4yyd@adelphia.net>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [163632] Spice help (Detectors)
Message-ID: <EIEBLEILGEEGMLHGH0AGAECMDBAA.kf4yyd@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All,

I've been working with Ron AC7AC, from the glowbugs list, he is trying to teach me enough tube theory to allow me to work on some glowbug projects. Right now I am stuck on trying to understand detectors as used in radio receivers and was wondering if someone could help me create a halfwave detector spice ckt so that I can see what is happening in the ckt. I can put the basic componets in but don't know how to get a modulated input signal (if it is even possible) so that I can see the various waveforms at different parts of the signal flow.

Thanks in advance, and Happy Holidays

73, de Tom kf4yyd Fredericksburg Virginia

IDHACWID* QRP Club #1

*I Don't Have A Clue What I'm Doing

Date: Tue, 23 Dec 2003 06:03:55 -0700 (MST)
From: Karl Larsen <k5di@zianet.com>
To: Tom Mc <thom2@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [163633] Re: FT-817 vs. IC-703
Message-ID: <Pine.LNX.4.44.0312230556310.4698-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 22 Dec 2003, Tom Mc wrote:

> Hi Gang,
>
> I'm trying get a better understanding of The Yaesu FT-817 and the Icom
> IC-703 (not the Pro version with 6 meters). With the price of the FT-817

> coming down I getting tempted but thought it best to do a little homework.
>
> I guess my first question should be, is there any other rig(s) in this
> category that I should also consider? (I already have an Elecraft K-2 and am
> happy with it.)
>
> Also, its seems that the 817 covers VHF and UHF and the 703 doesn't, I
> think.

Yes the 817 covers 6 and 2 meters and 70 cm. It does not include
an automatic antenna tuner. I own a 817 and love it.

>
> I'm having a bit of trouble in reading the 817 specs to see if it includes
> an automatic antenna tuner (I'm assuming it doesn't) but it seems that the
> ICOM rig does have an ATU (as well as DSP).

I can't comment on the Icom rig as I have never seen one.

>
> If there is anything else which sets these two rigs apart from each other,
> I'd appreciate your comments.
>

If you don't need a physically smaller rig that covers VHF/UHF
and has full receive coverage of all frequencies, don't get the 817.
With a K2 you already have more than the 703.

> Thanks in advance for your help and happy holidays to all
> Tom McCulloch
> WB2QDG
>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Tue, 23 Dec 2003 05:58:10 -0700
From: KJ7UN <kj7un@kj7un.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [163634] Re: FT-817 vs. IC-703
Message-ID: <opr0mwy8kqci47zn@mail.kj7un.com>

Content-Type: text/plain; format=flowed; charset=iso-8859-15
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

I considered the FT817, but went with the FT857. The 857 will go down to 5 watts or even less on some bands, has 100 watts out on HF, 50 on 2 and 20 on 70cm. It Does 2m, 7cm, 6m and 10 - 160 and does all modes on all bands. With the price at \$599 with a rebate from Yaesu until 12/31, I just couldn't pass it up. I've only had it a few days, but it seems like a great rig for me!

For what that's worth... Happy Holidays to all!

73 de KJ7UN

On Mon, 22 Dec 2003 21:56:54 -0500, Tom Mc <thom2@worldnet.att.net> wrote:

> Hi Gang,
>
> I'm trying get a better understanding of The Yaesu FT-817 and the Icom
> IC-703 (not the Pro version with 6 meters). With the price of the FT-817
> coming down I getting tempted but thought it best to do a little
> homework.
>
> I guess my first question should be, is there any other rig(s) in this
> category that I should also consider? (I already have an Elecraft K-2
> and am
> happy with it.)
>
> Also, its seems that the 817 covers VHF and UHF and the 703 doesn't, I
> think.
>
> I'm having a bit of trouble in reading the 817 specs to see if it
> includes
> an automatic antenna tuner (I'm assuming it doesn't) but it seems that
> the
> ICOM rig does have an ATU (as well as DSP).
>
> If there is anything else which sets these two rigs apart from each
> other,
> I'd appreciate your comments.
>
> Thanks in advance for your help and happy holidays to all
> Tom McCulloch
> WB2QDG

>
>
>

--

73 de KJ7UN, Laura

Date: Tue, 23 Dec 2003 08:17:49 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [163635] Re: [Ham-pic] Elmer 160: incsfz or incfsz That is the question?
Message-ID: <001f01c3c957\$29e55920\$090044c0@BrianBoru>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Good catch, Jean!

This is a typo I *ALWAYS* make!

In earlier lessons, most of my code examples were screen captures, which guarantees I get it right. There are a bunch of problems with that, though; it makes the PDF file big, on lower resolution screens it can be hard to read, and you can't cut and paste. On this lesson, all the code examples except the first were re-typed and painstakingly re-colored to match the MPLAB. The obvious disadvantage of this, besides taking a lot longer, is the opportunity for typos.

I don't know why it's so hard to type incfsz and decfsz, but I transpose the fs about 80% of the time. In MPLAB, it doesn't take long to discover that -- it doesn't turn blue! Unfortunately, Word has no such feature.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Jean Jibouleau" <jiboulj@globetrotter.net>
To: <ham-pic@mailman.qth.net>
Sent: Monday, December 22, 2003 9:09 PM
Subject: [Ham-pic] Re: incsfz or incfsz That is the question?

> Hello every one,

> Lesson #5 is much more substancial that all the previous.
> I take some time to read and study every thing.
> And dont forget some words has to be in CAPITAL letters.
>
> OK now I have a question for everyone including John.
> The page 11 of lesson 5 has a short program for looping.
> One of the instruction is incsfz something like INCrase Skip iF Zero
> Page 61 of the List of instruction for 16F8X from Microchip show the
> instruction incfsz
>
> Note the inversion of the letters fs.
>
> Is it a typo in lesson 5 ?
> Could it be our first bug ?
>
> Have a nice day and be happy
> 73 de Jean (VE2GHI)
>
> PS#1 : Does anyone has a list of suggestions for ham pic projects ?
> PS#2 : MERRY CHRISTMAS. I wish everyone everywhere could live in peace.
>
> -----
> Ham-pic mailing list
> Ham-pic@mailman.qth.net
> <http://mailman.qth.net/mailman/listinfo/ham-pic>
>

Date: Tue, 23 Dec 2003 08:14:44 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: peterlee@qx.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [163636] Re: "K" on 7.040
Message-ID: <3FE83FC4.6150788E@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Pete,

A complete list of Russian single letter beacons used to appear on Chuck Adams web site. They are good estimators for long distance propagation.

>
> Recently I read somewhere that they were Russian navigation beacons.
> 73 Pete NV4V

Date: Tue, 23 Dec 2003 08:37:22 EST
From: Ke9xq@aol.com
To: qrp-1@lehigh.edu
Subject: [163637] Help Wanted: Curvature of the Earth???
Message-ID: <1cc.1683b915.2d199f12@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Greetings Group

I'd like to address RARC with this topic, and thought if you don't mind, would appreciate your "two cents worth." I'd like to have a visual effect object or two, and thought of using a basket ball with a tiny antenna glued on it for the effect I'm looking for, so here are my questions to get the ball rolling.

1: Line of sight from top of a 30ft tower would reach out about how far? Assuming level grounds and no obstructions.

2: Line of sight from a 70ft tower would reach out how far? Similar scene as first question.

3: If I were to draw a 10" circle on a sheet of paper, that were to represent the earths circumference, how long of a line would I draw to represent these two towers? One 30ft, and one 70ft, and one more, how about one mile in height...

4: Seems I remember someone talking about just 'how' round the earth was a few years back, anyone remember an article on this?

While I'm sure a handbook or two might help, I'm sure another perspective or two would really come in handy. Thanks in advance for your assistance on this question.

73 72

Bill KE9XQ

Date: Tue, 23 Dec 2003 08:42:00 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: thom2@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [163638] Re: FT-817 vs. IC-703
Message-ID: <3FE84628.63F6C936@erols.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tom,

You are not alone in your confusion. Recent days have sought similar recommendations.

Let me sat right up front that I have neither owned nor operated either rig. But I HAVE compared many radios and selected more than a few.

After you have read the words, the only real way to select is to compare the actual radios side by side and use the most sensitive instrument you have available to you, your ears.

Within an hour or so you should have narrowed your choice significantly. This way you can get the best rig for YOU.

73,

Bruce,

Date: Tue, 23 Dec 2003 08:57:41 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: kloc@commspeed.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [163639] Re: Speaking of Globugs...
Message-ID: <3FE849D5.E89BF304@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

CQ Magazine ran a series of about four small transmitters from 1956 to 1957. The circuits were all simple and the housings were ordinary household materials. The one that I built was for 80 meters using a 117L7GT as an oscillator and half wave rectifier. The rig was built on a chassis made from hardware wire cloth mounted on a wooden base.

I was surprised at how well it worked. I was only 16 at the time. The note was sharp and clear with no chirp, drift, or key clicks. I made one contact with it, I worked a ham in Dayton, about 225 miles from my northern Ohio home.

But then the stories about the dangers of half wave rectifiers began to get through to me, so I cut the thing up and let it meet the trash can. I kept the tube and the socket though, and I have the idea of

bringing it back to life!

73

>

> Does anyone remember, in the late 50's or early 60's, a small transmitter,
> 40 meters I think,
> built in a 3x5 metal filecard box, using a 117N7 tube? It was in one of the
> major electronic
> magazines of the day.
>
> Ken - WA4MNT

Date: Tue, 23 Dec 2003 08:08:13 -0600
From: "Sam Binkley" <sbinkley1@cox.net>
To: <Ke9xq@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163640] Re: Help Wanted: Curvature of the Earth???
Message-ID: <03b901c3c95e\$34978580\$a67fe344@DHT81T11>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bill,

I have a formula I scribbled down several years ago for "distance of horizon" - distance (in statute miles) = 1.317 x the square root of the height in feet. For nautical miles it would be 1.144. Hope this helps for the distance part. I'm afraid I can't help with the 10" circle though.
Sam, KL7V/5

----- Original Message -----

From: <Ke9xq@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, December 23, 2003 7:37 AM
Subject: Help Wanted: Curvature of the Earth???

> Greetings Group

> I'd like to address RARC with this topic, and thought if you don't mind,
> would appreciate your "two cents worth." I'd like to have a visual effect
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> for the effect I'm looking for, so here are my questions to get the ball
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> as first question.
> 3: If I were to draw a 10" circle on a sheet of paper, that were to represent the earths circumference, how long of a line would I draw to represent
> these two towers? One 30ft, and one 70ft, and one more, how about one mile in
> height...
> 4: Seems I remember someone talking about just 'how' round the earth was a
> few years back, anyone remember an article on this?
> While I'm sure a handbook or two might help, I'm sure another perspective
> or two would really come in handy. Thanks in advance for your assistance on
> this question.
> 73 72
> Bill KE9XQ
>

Date: Tue, 23 Dec 2003 08:11:36 -0600
From: John Oppenheimer <kn5l@gte.net>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [163641] Re: FT-817 vs. IC-703
Message-ID: <3FE84D18.8F8A79B1@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The FT-817 and IC-703 are two different radios, so it is difficult to find the "better" radio. To select one over the other you should consider your requirements.

Do you want the smallest and lightest available?

Do you want an internal antenna tuner?

Do you want VHF and UHF?

Do you want greater than 5 watts output?

Do you want the ability to have internal batteries?

Do you want a little larger display and buttons?

Do you want relay less QSK?

Do you want DSP?

Do you want a simple frequency spectrum display?

Do you want a VSWR plot?

Etc.

I tried to have equal 703 and 817 lines, but being a 703 owner, I know more about it. I would not select one over the other based on receiver or transmitter specifications alone.

John

Date: Tue, 23 Dec 2003 09:17:39 -0500
From: "Brad Hedges" <bhedges@nc.rr.com>
To: <Ke9xq@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [163642] Re: Help Wanted: Curvature of the Earth???
Message-ID: <007b01c3c95f\$8969e340\$e0c73942@nc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Chapter 3 of the ARRL's Extra Class Study Guide covers this exact subject, and includes charts Line Of Site of distance for height. (I've been studying....)

You get about 15% extra for radio signals over visual LOS distance, and the numbers add, but the 15% only applies to ONE of the two towers. For 30 feet, you get approx. 6 miles visually and 7 1/2 "radio-ly", and for 70 ft, about 10 & 12 miles. So, the two towers could be about 18 miles apart for LOS comms.

73
K0BHC
Brad

----- Original Message -----

From: <Ke9xq@aol.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, December 23, 2003 8:37 AM

Subject: Help Wanted: Curvature of the Earth???

> Greetings Group

> I'd like to address RARC with this topic, and thought if you don't mind,

> would appreciate your "two cents worth." I'd like to have a visual effect
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> for the effect I'm looking for, so here are my questions to get the ball
> rolling.

> 1: Line of sight from top of a 30ft tower would reach out about how
far?

> Assuming level grounds and no obstructions.

> 2: Line of sight from a 70ft tower would reach out how far? Similar
scene

> as first question.

> 3: If I were to draw a 10" circle on a sheet of paper, that were to
> represent the earths circumference, how long of a line would I draw to
represent

> these two towers? One 30ft, and one 70ft, and one more, how about one
mile in

> height...

> 4: Seems I remember someone talking about just 'how' round the earth
was a

> few years back, anyone remember an article on this?

> While I'm sure a handbook or two might help, I'm sure another
perspective

> or two would really come in handy. Thanks in advance for your assistance
on

> this question.

> 73 72

> Bill KE9XQ

Date: Tue, 23 Dec 2003 09:21:42 -0500 (EST)

From: Chris Cartwright <ccart@phideaux.com>

To: Ke9xq@aol.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [163643] Re: Help Wanted: Curvature of the Earth???

Message-ID: <Pine.LNX.4.21.0312230917510.1341-1000000@dns.phideaux.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 23 Dec 2003 Ke9xq@aol.com wrote:

> these two towers? One 30ft, and one 70ft, and one more, how about one mile

30 = about 6 miles

70 = about 11 miles

5280 = about 98 miles

Just off the top of my head :) Actually, I used the following URL;

<http://pollux.nss.nima.mil/calc/horizon.html>

It's a good approximation, but assumes the world is a perfect sphere.

72

-- Chris Cartwright, Unix Administrator | ccart@phideaux.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Oxford, PA 19363 FM29as --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Tue, 23 Dec 2003 09:43:29 -0500

From: "David Porter" <aa3ur@comcast.net>

To: <Ke9xq@aol.com>,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [163644] RE: Help Wanted: Curvature of the Earth???

Message-ID: <NGBBICPOCLKMGIBGGBEAIECBEDAA.aa3ur@comcast.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Imagine a sphere of about 4000 miles radius.

Call the center O.

Call the North Pole, where we will locate a tower, B.

Call the top of the tower A.

Call the horizon, as seen from the top of the tower D.

Call the height of the tower $h = AB$

Call the radius of the earth $r = OB = OD$

The length AO from the top of the tower to the center is equal to

$AO = \text{height of tower} + \text{radius of earth} = AB + BO$

$OD = \text{radius of earth}$

$AD = \text{line of sight from top of tower to horizon}$

These three lines form a right triangle so Pythagoras says:

$$AO^2 = (AD^2) + (OD^2)$$

$$\begin{aligned} AD^2 &= (AO^2) - (OD^2) \\ &= ((h+r)^2) - r^2 \\ &= h^2 + 2rh \end{aligned}$$

$$AD = \text{SQRT}(h^2 + 2rh)$$

If you keep all lengths in miles, the height of the tower is a small fraction of a mile and the height squared is smaller!

For question 1, 6.742 miles

For question 2, 10.299 miles

For question 3:

10" is to 4000 miles as X is to 30 ft.

10" is to 253440000" as X is to 360"

$$10/253440000 = X/360$$

$$X = (360 \times 10) / 253440000$$

X = 14.2 * 10⁻⁶ inches. That's 14.2 micro inches.

33.1 micro inches for a 70 foot tower.

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
> Ke9xq@aol.com

> Sent: Tuesday, December 23, 2003 8:37 AM

> To: Low Power Amateur Radio Discussion

> Subject: Help Wanted: Curvature of the Earth???

>

>

> Greetings Group

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> Similar scene

> as first question.

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> represent the earth's circumference, how long of a line would I

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> earth was a
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> perspective
> or two would really come in handy. Thanks in advance for your
> assistance on
> this question.
> 73 72
> Bill KE9XQ

Date: Tue, 23 Dec 2003 08:45:39 -0600
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-1@lehigh.edu
Subject: [163645] Re: Help Wanted: Curvature of the Earth??? [Oblate Earth]
Message-ID: <3.0.2.32.20031223084539.00834100@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Bill and all,

If you want to have some fun with the slightly oblate shape of the earth,
do a Google search on -- Oblate Earth. You'll find a bunch of stuff
including some spherical trig... [g]

Here's one really good one...

<http://www.celestrak.com/columns/v02n03/>

At 08:37 AM 12/23/2003 EST, you wrote:

>Greetings Group
> I'd like to address RARC with this topic, and thought if you don't mind,
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>height...
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> While I'm sure a handbook or two might help, I'm sure another perspective
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>this question.
>73 72
>Bill KE9XQ
>

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPP-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, FP #601 oo <http://www.netxqrp.org>

Date: Tue, 23 Dec 2003 09:08:29 -0600
From: Ken N9VV <n9vv@wideopenwest.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [163646] [OT] dimmer switch RFI
Message-ID: <3FE85A6D.2030707@wideopenwest.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Dear QRP-L friends,
Our contractor installed new dimmer switches
and outside security lights. All of them are
causing terrible RFI in the shack. Can anyone
recommend a manufacturer who makes QUIET dimmer
switches (for fans with lights) and outside movement
detector lights?
Pse reply to me off the list.
TU for your help,
de ken n9vv
--

MDS + BDR + Ip3 + Ip2....forget it !!,
melt some solder, get on the air,
and have some fun!

Date: Tue, 23 Dec 2003 11:17:11 -0600
From: "Nick Kennedy" <wa5bdu@tcainternet.com>
To: <Ke9xq@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [163647] RE: [qrp-1] Help Wanted: Curvature of the Earth???
Message-ID: <000801c3c978\$9a5cb010\$0400000a@wa5bdu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Ah. Fun brain teaser.

I'd go about it like this. Draw a circle and note that its radius is 4000 miles. Draw a line from radius outward going a bit past the circle to include the tower's height (exaggerate it in your sketch). From the top of the "tower" draw a line tangent to the circle. Next draw a line from point of tangency back to the center.

Now you see a right triangle (a radius always intersects a tangent at 90 degrees). You are after the distance from the tip of the tower to the tangent, which is one of the two non-hypotenuse sides. The length of the hypotenuse is 4000 miles plus 30/5280 miles or 4000.0056818 miles. The length of one of the other sides is the radius, 4000 miles. By the Pythagorean (?) theorem, the length of the other side is the square root of $4000.0056818^2 - 4000^2$ or 6.74 miles.

Close observers will note that this is the straight line distance from the tip of the tower to the horizon, not the distance along the earth's surface. I suspect that the difference is quite small. That issue is left as an exercise for the reader.

Now, if you draw a 10 inch diameter circle, how long should you draw your tower? By simple ratio,

$(10/(8000*5280*12)) = X/(30/5280)$ (inches over inches, feet over feet)

$X = 5.92E-7$ feet or 7.1 millionths of an inch.

Assuming I didn't push a wrong button on my calculator, always a possibility.

You did say a 10 inch circle, then "10 inch circumference", but I assumed you meant 10 inch diameter, since it's harder to draw circles by circumference.

The other answers should be straightforward number crunching.

TNX for the interesting puzzler.

72--

Nick, WA5BDU

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Ke9xq@aol.com

Sent: Tuesday, December 23, 2003 7:37 AM

To: Low Power Amateur Radio Discussion

Subject: [qrp-1] Help Wanted: Curvature of the Earth???

1: Line of sight from top of a 30ft tower would reach out about how far?

Assuming level grounds and no obstructions.

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as first question.

3: If I were to draw a 10" circle on a sheet of paper, that were to represent the earths circumference, how long of a line would I draw to represent these two towers? One 30ft, and one 70ft, and one more, how about one mile in height...

Bill KE9XQ

Date: Tue, 23 Dec 2003 11:29:28 -0600

From: "Nick Kennedy" <wa5bdu@tcainternet.com>

To: <w6toy@erols.com>,

"'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>

Subject: [163648] Re: Introductory/Step by Step Circuit Design Tutorial

Message-ID: <000901c3c97a\$5154c950\$0400000a@wa5bdu>

MIME-Version: 1.0

Content-Type: text/plain;
charset="us-ascii"

Content-Transfer-Encoding: 7bit

I agree with Bruce that the poster is looking for the 'holy grail', but I don't agree with the notion that those without a mastery (formal, college level) of higher math cannot perform circuit design. Algebra is required, certainly, and everything else you have definitely helps.

I also agree that the ARRL Handbook has a lot of holes in it. It's very useful and I won't be without one (I have eight or ten).

I think Solid State Design for the Radio Amateur and Experimental Methods in RF Design come about as close as anything I've seen in giving both practical factors and the theoretical basis for circuit design.

Hayward and the other authors of the two books mentioned teach without resorting to calculus and differential equations. Either those guys are wrong or Bruce is.

72--Nick, WA5BDU

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Bruce Muscolino

What is your educational level? You are asking about the 'holy grail' of electrical engineering. Circuit design is about as high up in the field as you can aspire to!

The reason I ask is that without the necessary mathematical background you won't get very far. Circuit design is a mathematical thing.

Bruce

Date: Tue, 23 Dec 2003 08:32:51 -0700
From: "John_Evans" <jaevans@codenet.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <nkennedy@tcainternet.com>
Subject: [163649] RE: [qrp-1] Help Wanted: Curvature of the Earth???
Message-ID: <200312230832.AA393150910@mail.codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

dang, my compass won't draw circles that big folks :)

----- Original Message -----

From: "Nick Kennedy" <wa5bdu@tcainternet.com>
Reply-To: <nkennedy@tcainternet.com>
Date: Tue, 23 Dec 2003 11:17:11 -0600

>Ah. Fun brain teaser.

>

>I'd go about it like this. Draw a circle and note that its radius is
>4000 miles. Draw a line from radius outward going a bit past the circle

Date: Tue, 23 Dec 2003 08:11:41 PST
From: James R Giammanco <n5ib@juno.com>
To: Ke9xq@aol.com, qrp-1@Lehigh.edu
Subject: [163650] Re: Help Wanted: Curvature of the Earth???
Message-ID: <20031223.110118.4647.3.n5ib@juno.com>

Hi Bill,

To a pretty good approximation, the line of sight distance can be
calculated as

$(1.2) \times (\text{square root of height in feet})$

with the result being in miles. So a 30 ft tower gets you about 6.5 mi,
and a 70 footer 10 miles. A mile high tower would yield 87 miles.

These distances add, so if an antenna on a 30 foot tower was
communicating to one on a 70 ft tower, the line of sight would be 6.5 +
10 = about 17 miles.

If the Earth were 10" in diameter, representing its actual 7900 mile
diameter, then a 30 ft tower would be a pinpoint just 0.000007" tall, a
70 footer 0.00002" tall, and even a one mile tower only 0.001" tall.

So it's really not practical to try to show these scales. You could drive
the "point" (I guess pun intended) home by placing a thumbtack, point
side up, on the basketball and explaining that it would represent a tower
almost 200 miles high. Which by the way, is about the height at which the
space station orbits (about 250 mi or so)

As an aside, if the Earth is represented by a basketball, the Moon would
be about the size of a softball, and would be nearly 30 feet away. The
Sun would be almost 2 miles away and almost 100 ft in diameter. The
nearest star would be some half million miles away.

The universe is a very big place.

72

Jim N5IB

On Tue, 23 Dec 2003 08:37:22 EST Ke9xq@aol.com writes:

>Greetings Group

> I'd like to address RARC with this topic, and thought if you don't
>mind,
>would appreciate your "two cents worth." I'd like to have a visual
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>object or two, and thought of using a basket ball with a tiny antenna
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The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Tue, 23 Dec 2003 11:23:57 -0500
From: "David Porter" <aa3ur@comcast.net>
To: "Ke9xq@aol. com" <Ke9xq@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [163651] RE: Help Wanted: Curvature of the Earth???
Message-ID: <NGBBICPOCLKMGIBGGBEAKECCEDAA.aa3ur@comcast.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OOPS! I used a 10" radius not a 10" diameter for the basketball. The last two answers should be divided by two.

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
> David Porter
> Sent: Tuesday, December 23, 2003 9:43 AM
> To: Low Power Amateur Radio Discussion
> Subject: RE: Help Wanted: Curvature of the Earth???

>
>
> Imagine a sphere of about 4000 miles radius.
> Call the center O.
> Call the North Pole, where we will locate a tower, B.
> Call the top of the tower A.

> Call the horizon, as seen from the top of the tower D.
 > Call the height of the tower $h = AB$
 > Call the radius of the earth $r = OB = OD$
 >
 > The length AO from the top of the tower to the center is equal to
 > $AO = \text{height of tower} + \text{radius of earth} = AB + BO$
 > $OD = \text{radius of earth}$
 > $AD = \text{line of sight from top of tower to horizon}$
 >
 > These three lines form a right triangle so Pythagoras says:
 > $AO^2 = (AD^2) + (OD^2)$
 >
 > $AD^2 = (AO^2) - (OD^2)$
 > $= ((h+r)^2) - r^2$
 > $= h^2 + 2rh$
 >
 > $AD = \text{SQRT}(h^2 + 2rh)$
 >
 > If you keep all lengths in miles, the height of the tower is a small
 > fraction of a mile and the height squared is smaller!
 >
 > For question 1, 6.742 miles
 > For question 2, 10.299 miles
 > For question 3:
 > 10" is to 4000 miles as X is to 30 ft.
 > 10" is to 253440000" as X is to 360"
 > $10/253440000 = X/360$
 > $X = (360*10)/25344000$
 > $X = 14.2 * 10^{-6}$ inches. That's 14.2 micro inches.
 >
 > 33.1 micro inches for a 70 foot tower.
 > > -----Original Message-----
 > > From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
 > > Ke9xq@aol.com
 > > Sent: Tuesday, December 23, 2003 8:37 AM
 > > To: Low Power Amateur Radio Discussion
 > > Subject: Help Wanted: Curvature of the Earth???
 > >
 > >
 > > Greetings Group
 > > I'd like to address RARC with this topic, and thought if you
 > > don't mind,
 > > would appreciate your "two cents worth." I'd like to have a
 > > visual effect
 > > object or two, and thought of using a basket ball with a tiny
 > > antenna glued on it
 > > for the effect I'm looking for, so here are my questions to get the ball
 > > rolling.

> > 1: Line of sight from top of a 30ft tower would reach out
> > about how far?
> > Assuming level grounds and no obstructions.
> > 2: Line of sight from a 70ft tower would reach out how far?
> > Similar scene
> > as first question.
> > 3: If I were to draw a 10" circle on a sheet of paper, that were to
> > represent the earths circumference, how long of a line would I
> > draw to represent
> > these two towers? One 30ft, and one 70ft, and one more, how
> > about one mile in
> > height...
> > 4: Seems I remember someone talking about just 'how' round the
> > earth was a
> > few years back, anyone remember an article on this?
> > While I'm sure a handbook or two might help, I'm sure another
> > perspective
> > or two would really come in handy. Thanks in advance for your
> > assistance on
> > this question.
> > 73 72
> > Bill KE9XQ
>

Date: Tue, 23 Dec 2003 09:38:44 -0700
From: "Larry Roohr" <larry.roohr@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [163652] Re: Spice help (Detectors)
Message-ID: <000901c3c973\$3b806c80\$6800a8c0@peanut>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tom,

There are spice tube models out there. A good place to start is Norm Koren's site (do a google search), he has some models there and has links to other sites with more info. I dont know if there are any diode/detector models but it would be a good place to start looking.

Larry kz0e

----- Original Message -----
From: "Tom" <kf4yyd@adelphia.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, December 23, 2003 5:50 AM
Subject: Spice help (Detectors)

> Hello All,
>
> I've been working with Ron AC7AC, from the glowbugs list, he is trying to
> teach me enough tube theory to allow me to work on some glowbug projects.
> Right now I am stuck on trying to understand detectors as used in radio
> receivers and was wondering if someone could help me create a halfwave
> detector spice ckt so that I can see what is happening in the ckt. I can
put
> the basic componets in but don't know how to get a modulated input signal
> (if it is even possible) so that I can see the various waveforms at
> differents parts of the signal flow.
>
> Thanks in advance, and Happy Holidays
>
> 73, de Tom kf4yyd Fredericksburg Virginia
>
> IDHACWID* QRP Club #1
>
> *I Don't Have A Clue What I'm Doing
>
>

Date: Tue, 23 Dec 2003 10:47:12 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: <nkennedy@tcainternet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [163653] Re: Introductory/Step by Step Circuit Design Tutorial
Message-ID: <5.2.0.9.0.20031223102556.00a7d2e0@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Nobody is necessarily wrong here, there are all sorts levels to circuit design. The books you mention are a great help to persons without a high level of math for a background.

They show you simplified math, approximate methods etc, which is good enough for personal design of a ham gadget. However if you are designing anything of a critical nature or something that must hold up under all kinds of different environments, then you need to do precise analysis

rather than close approximations.

Sometimes, you see kits or projects designed by hams that have problems and, as an example let's say the final transistor blows occasionally, that is a case where the approximate formulas if they were used were not good enough, a detailed analysis might have shown that the collector voltage was swinging too close to the failure point, or perhaps it was drawing excessive peak current, simple algebra isn't going to help you figure it out in advance.

I think Bruce worked for government contractors, designing circuits that are critical (correct me if I'm wrong) and that must meet very stringent specifications. Fortunately most of us are just trying to have some fun and learn while we are at it, so we don't use or need as detailed analysis as someone who designs a piece of electronics that goes into a jet fighter, or a nuclear reactor control system.

At 11:29 AM 12/23/2003, Nick Kennedy wrote:

>I agree with Bruce that the poster is looking for the 'holy grail', but
>I don't agree with the notion that those without a mastery (formal,
>college level) of higher math cannot perform circuit design. Algebra is
>required, certainly, and everything else you have definitely helps.

>

>I also agree that the ARRL Handbook has a lot of holes in it. It's very
>useful and I won't be without one (I have eight or ten).

>

>I think Solid State Design for the Radio Amateur and Experimental
>Methods in RF Design come about as close as anything I've seen in giving
>both practical factors and the theoretical basis for circuit design.

>

>Hayward and the other authors of the two books mentioned teach without
>resorting to calculus and differential equations. Either those guys are
>wrong or Bruce is.

>

>72--Nick, WA5BDU

>

>

>-----Original Message-----

>From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf
>Of Bruce Muscolino

>

>

>

>What is your educational level? You are asking about the 'holy grail'
>of electrical engineering. Circuit design is about as high up in the
>field as you can aspire to!

>

>The reason I ask is that without the necessary mathematical background

>you won't get very far. Circuit design is a mathematical thing.

>

>Bruce

Cecil

KD5NWA

Date: Tue, 23 Dec 2003 12:23:12 -0500
From: "John LeRoy" <w4jkl@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [163654] Re: Speaking of Globugs...
Message-ID: <008b01c3c979\$71b32ee0\$6401a8c0@amdbox>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

"The Peanut Whistle", August 1965, CQ. This one's in a 5X2X3" minibox.

John W4JKL

----- Original Message -----

From: "Bruce Muscolino" <w6toy@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, December 23, 2003 8:57 AM
Subject: Re: Speaking of Globugs...

> CQ Magazine ran a series of about four small transmitters from 1956 to
> 1957. The circuits were all simple and the housings were ordinary
> household materials. The one that I built was for 80 meters using a
> 117L7GT as an oscillator and half wave rectifier. The rig was built on
> a chassis made from hardware wire cloth mounted on a wooden base.

>

> I was surprised at how well it worked. I was only 16 at the time. The
> note was sharp and clear with no chirp, drift, or key clicks. I made
> one contact with it, I worked a ham in Dayton, about 225 miles from my
> northern Ohio home.
> But then the stories about the dangers of half wave rectifiers began to
> get through to me, so I cut the thing up and let it meet the trash
> can. I kept the tube and the socket though, and I have the idea of
> bringing it back to life!

>

> 73

> >
> > Does anyone remember, in the late 50's or early 60's, a small
transmitter,
> > 40 meters I think,
> > built in a 3x5 metal filecard box, using a 117N7 tube? It was in one of
the
> > major electronic
> > magazines of the day.
> >
> > Ken - WA4MNT

Date: Tue, 23 Dec 2003 11:38:39 -0600
From: "Mark Andrews \((KE4MA\)" <KE4MA@KE4IOF.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163655] Re: [ke4ma] Re: Introductory/Step by Step Circuit Design
Tutorial
Message-ID: <00d201c3c97b\$9a786e10\$976e640a@BIMarkAndrews>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You don't need to go to college to master higher mathematics either. The fundamentals of calculus are very easy to understand. The difficulty for most people is in its application to everyday life. However, like everything else in life, your level of desire, effort and practice are the determining factors in what you can achieve.

There are plenty of books available that will teach basic, intermediate and advanced mathematics including all the specific branches like partial differential equations, numerical analysis, etc. If nothing else, ask your local community college if you can audit some of its math courses.

Mathematics, like electronics is progressive, so you must have a good foundation. For Calculus, it is imperative that you understand the fundamentals of both Algebra and Trigonometry.

73,

Mark - KE4MA

"If there are two or more ways to do something,
and one of those ways can result in a catastrophe,
someone will do it." - Murphy

----- Original Message -----

From: "KD5NWA" <KD5NWA@cbayona.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Tuesday, December 23, 2003 10:47 AM

Subject: [ke4ma] Re: Introductory/Step by Step Circuit Design Tutorial

> Nobody is necessarily wrong here, there are all sorts levels to circuit
> design. The books you mention are a great help to persons without a high
> level of math for a background.
>

Date: Tue, 23 Dec 2003 11:48:28 -0600

From: Chuck Carpenter <w5usj@9plus.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [163656] Circuit Design Tutorial [Empirical Design]

Message-ID: <3.0.2.32.20031223114828.008376e0@mail.9plus.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

For the average amateur, I'd say that a working knowlege of components, what they do, and how they do it over a range of frequencies would suffice for a great many projects. Many, maybe most, of the projects you see in amateur magazines were probably empirically developed. Often the reason that they don't work so well when built with a different batch of parts.

If you want to do component characteristics and tolerance studies you may need to get a little deeper. If developmental research is your goal you'd expect to need advanced university level studies and associated experience.

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1

QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57

Zombie #759, COG #11, 6 Club #201, FP #601 oo <http://www.netxqrp.org>

Date: Tue, 23 Dec 2003 11:04:47 -0800

From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>

To: QRP-L <qrp-l@lehigh.edu>

Subject: [163657] emails to sales@elecraft.com incorrectly bounced; Now fixed

Message-ID: <3FE891CF.1060102@elecraft.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

Just in time for the holiday rush.. We had an email server problem at Elecraft yesterday. :-0

All emails sent to sales@elecraft.com after 8 AM Monday morning Calif. time were bounced back to their sender. The problem was corrected this morning at 10:50 AM Calif. time.

There was NO problem with our web page order form and other elecraft email addresses (support@elecraft.com and parts@elecraft.com). They are OK and were NOT bouncing emails.

I apologize for any confusion this may have caused.

72, Eric WA6HHQ

Date: Tue, 23 Dec 2003 14:25:38 -0500
From: John Sielke <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [163658] Tuna Tin II
Message-ID: <3FE896B2.1080901@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Been catching up, building some small kits I got a long time ago. Built my MRX-40 receiver (remember that one?) yesterday. Found just the right little box for it. Then I built my Tuna Tin 2. Put a 22 ohm resistor in the emitter of Q2 and getting a good 300 mw out. No chirp, either! Using a little miniature straight key from Morse Express. Had a nice 30 minute QSO with K1IQI in MA with the pair just now. MRX 40 is just right to go with the TT2.

Only thing is, I have not used a straight key in so long, my fist is poor and now my wrist is tired. I used to go for hours on a straight key, must not build them that well anymore.... ;-)

John W2AGN

Date: Tue, 23 Dec 2003 12:03:09 -0800
From: "Steve McDonald" <jsm@gulfislands.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163659] Re: [OT] dimmer switch RFI
Message-ID: <002001c3c98f\$caf3fdc0\$7411f4cc@jsm>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ken - could you post the responses to the list? I think there are several of us needing this information.

Steve

'THE VE7SL RADIO NOTEBOOK' : <http://www.imagenisp.ca/jsm>
[L.F. Loop] [Tuna Tin DX] [Crystal Radio DXing] [Maritime/Aero DX]
[136 kHz] [Boatanchors]

Date: Tue, 23 Dec 2003 12:21:22 -0800 (PST)
From: Lloyd Lachow <llachow@yahoo.com>
To: "Li'l Piggies" <fpqrp-l@mpna.com>, sidebar a <Sidebar@vk2tips.com>,
a low-energy group <qrp-l@lehigh.edu>
Subject: [163660] Q B A ! ! !
Message-ID: <20031223202122.53567.qmail@web41010.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

After threatening for many months, I've gotten a loop in the air! Hope it stays up for awhile.

And I did it myself, because Bob and Curt refused to come help. But it built character.

I used some strong, thin copper-coated steel wair, some ceramic insulators, 300-ohm window line, and 3/16" black braided Dacron rope.

I was gonna use two ropes per tree, with a pulley and weight, but couldn't see how to avoid the branches on the way up. So I used one rope each, shot over the chosen branch from a ways away from the tree, so it would clear as much of the tree as possible, and each one will have a bungee cord on the end. The insulators are free to slide.

The funniest part was when one of the ropes seemed to go a lot farther out from the tree than I thought I had allowed, while tweaking the position, Then I found that the end had come untied on that rope, and the end was (luckily!) dangling only about ten feet up. Having the ladder up from the basement, though, was a good thing, because I also used it to help secure the feedline to a tree outside the shack window.

After it was up, I saw that it could have been bigger, so I lowered it and added a piece...bringing it from 272' to about 302' around. It's about 50' off the ground, on average, and there are four support points.

Since I had to go back to "work," I left it with the feedline in the shack, ready to strip and tin a couple of ends, then into the balun it goes. Tonight seems very, very far away right now...

72,

LL

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
KX1#11 - multiPIG+14 - K1#379 - 20/40M RockMites
Loop - EDZ - LW - Begali Magnetic Classic Paddles
ARRL - ARS - QRParci - QCWA - FISTS #8774
FPQRP #476 - QRP-L - BORG #2
Fun = Skill / Power ! 8^D

Do you Yahoo!?

New Yahoo! Photos - easier uploading and sharing.

<http://photos.yahoo.com/>

Date: Tue, 23 Dec 2003 16:10:02 -0500
From: Ted Albert <ted.albert@fuse.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163661] Re: Glowbug Radio Rally Announced Has QRP Category
Message-ID: <200312231610.03029.ted.albert@fuse.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

On Monday 22 December 2003 09:40 pm, Conard Murray wrote:

> I hope that many of the QRP gang will take some time to enter our
> Radio Rally and possibly win a certificate. The rules are set up to
> give homebrew rigs an advantage and QRP stations are scored
> seperately. This should be a good sprint to give 80 and 160 M a try.
> Activity will center around 1802, 3550, 3579 and 7050 KHz.

3579 ... shades of the former NEQRP Colorburst Sprint. :-) I actually
had a QRP CW contact on 3579 earlier this Fall. Anyone else planning
to look around that frequency during the Rally? I'll check it from
time-to-time during the Rally ... might even hang around there tonight
for a while if the frequency is available.

72 de Ted, AB8FJ

Date: Tue, 23 Dec 2003 16:51:51 -0500
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <jsm@gulfislands.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [163662] Re: [OT] dimmer switch RFI
Message-ID: <005101c3c99e\$fb324fa0\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Home RFI issues can be a bear!

It's not dimmers, but I have thermostat problems I'm still fighting.

I replaced my baseboard heating with 'storage units'. Now the
thermostats no longer switch 20amp+ loads. They switch on

and off small high efficiency 220v fans that blow air through the storage unit on demand. I get better cheaper heat.

And, you'd think that the small fans would be less RF noisy.

Well, maybe the fans are, but the Honeywell thermostats I paid to upgrade to sure aren't! They supposedly control temperature better, but I was sure sold a bill of goods. Almost every one in the house makes RFI. BAD RFI!! I mean to the point of DESTROYING the TV picture! Even causing network problems. And killing my X10 light controls.

What happens is the thermostats turn on just fine. But when they turn off, they don't quite. Sometimes they will 'hiss'. For a minute or more at a time! Arcing as they try to release.

I SUSPECT, but don't know for sure, that the gap on release is just too small. I can only surmise that with the old heaters, the 20+ amp draw make the gap on release look like the high impedance point of the circuit and it would extinguish. But with the small fans drawing less than 1 amp, the gap is somehow still conducting across the spark from the release.

And yes, I replaced every one of them. I bought a CASE of the thermostats and swapped them ALL out. And they all started the arcing again within a couple months.

Driving me nuts...

Date: Tue, 23 Dec 2003 22:35:48 GMT
From: wo7t@juno.com
To: qrp-l@Lehigh.edu
Cc: n9vv@wideopenwest.com
Subject: [163663] RE:[OT] dimmer switch RFI
Message-ID: <20031223.143616.11279.1506911@webmail02.lax.unttd.com>
Mime-Version: 1.0
Content-Type: text/plain

Ken et al:

I tried for many months to truly remedy wall socket dimmers and also those torch lamps with some sort of rheostat. I made a few quieter, but these things just aren't made to coexist with ham radio households, and especially not weak power work.

I ripped out all the dimmers from the wall, and bought the XYL new tall brass torch lamps, and this time made sure the switches on them do nothing variable. They turn it on, or they turn it off. Well, slight caveat, one torch lamp takes a standard 3 way bulb, and lights low, medium, and high, with no noise. I also threw out all the capacitance touch lamps that looked good and were a novelty for the kids rooms. Again, back to on/off table lamps.

The house is RF quiet, and the novelty of all that dimming affect is long forgotten.

GL
72
Mark
W07T

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
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Date: Tue, 23 Dec 2003 18:00:42 -0500
From: "Ken Alexander" <kpathai@hotmail.com>
To: myetsko@insydesw.com, qrp-1@Lehigh.EDU
Subject: [163664] Re: [OT] dimmer switch RFI
Message-ID: <Sea2-F54zi95HfqR77b00017882@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi Mike,

Do you know if there are e-mail reflectors or Yahoo groups, etc, devoted to RFI? Seems to me that there are so many hams and SWLs that suffer from RFI caused by household appliances that there must be quite a large body of knowledge out there that just needs to be funnelled into one spot where we can all benefit.

Likewise, I would think that there must be an equally large number of hams out there with experience at solving interference problems created by their transmissions, but once again I don't know where to look.

73,

Ken - VE3HLS
Sharon, ON
KX1 #112, FPqrp #716

>From: "Mike Yetsko" <myetsko@insydesw.com>
>Reply-To: myetsko@insydesw.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Re: [OT] dimmer switch RFI
>Date: Tue, 23 Dec 2003 16:51:51 -0500
>
>Home RFI issues can be a bear!
>
>It's not dimmers, but I have thermostat problems I'm still fighting.
>
>I replaced my baseboard heating with 'storage units'. Now the
>thermostats no longer switch 20amp+ loads. They switch on
>and off small high efficiency 220v fans that blow air through the
>storage unit on demand. I get better cheaper heat.
>
>And, you'd think that the small fans would be less RF noisy.
>
>Well, maybe the fans are, but the Honeywell thermostats I paid
>to upgrade to sure aren't! They supposedly control temperature
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>the house makes RFI. BAD RFI!! I mean to the point of
>DESTROYING the TV picture! Even causing network problems.
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>turn off, they don't quite. Sometimes they will 'hiss'. For a minute
>or more at a time! Arcing as they try to release.
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>too small. I can only surmise that with the old heaters, the 20+ amp
>draw make the gap on release look like the high impedance point of
>the circuit and it would extinguish. But with the small fans drawing
>less than 1 amp, the gap is somehow still conducting across the spark
>from the release.
>
>And yes, I replaced every one of them. I bought a CASE of the
>thermostats and swapped them ALL out. And they all started the
>arcing again within a couple months.
>
>Driving me nuts...

>

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<http://join.msn.com/?page=features/junkmail>
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End of QRP-L Digest 3143

